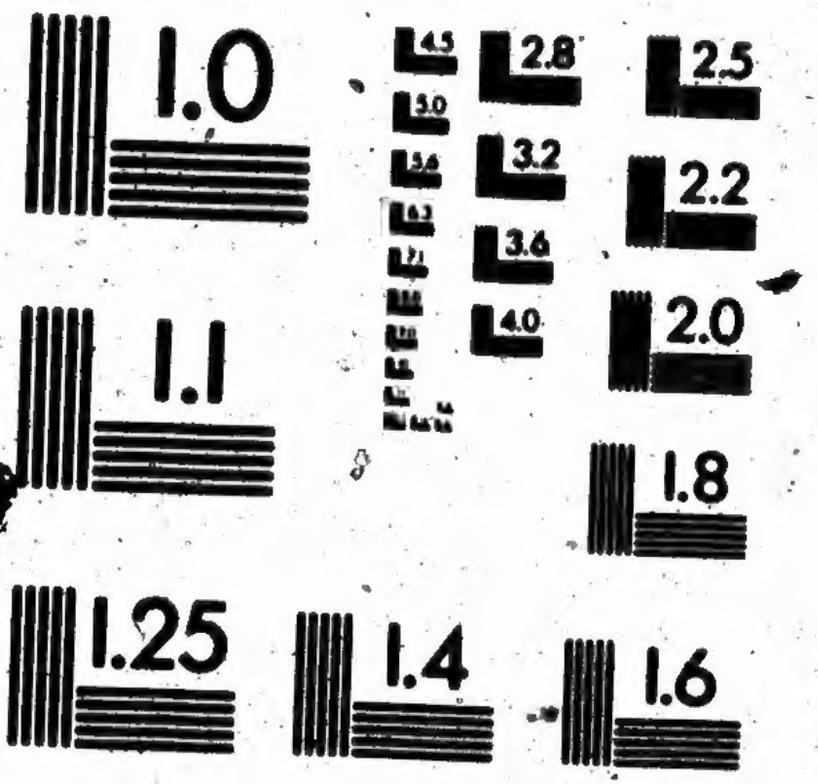
MICROCOPY RESOLUTION TEST CHART

(ANSI and ISO TEST CHART No. 2)



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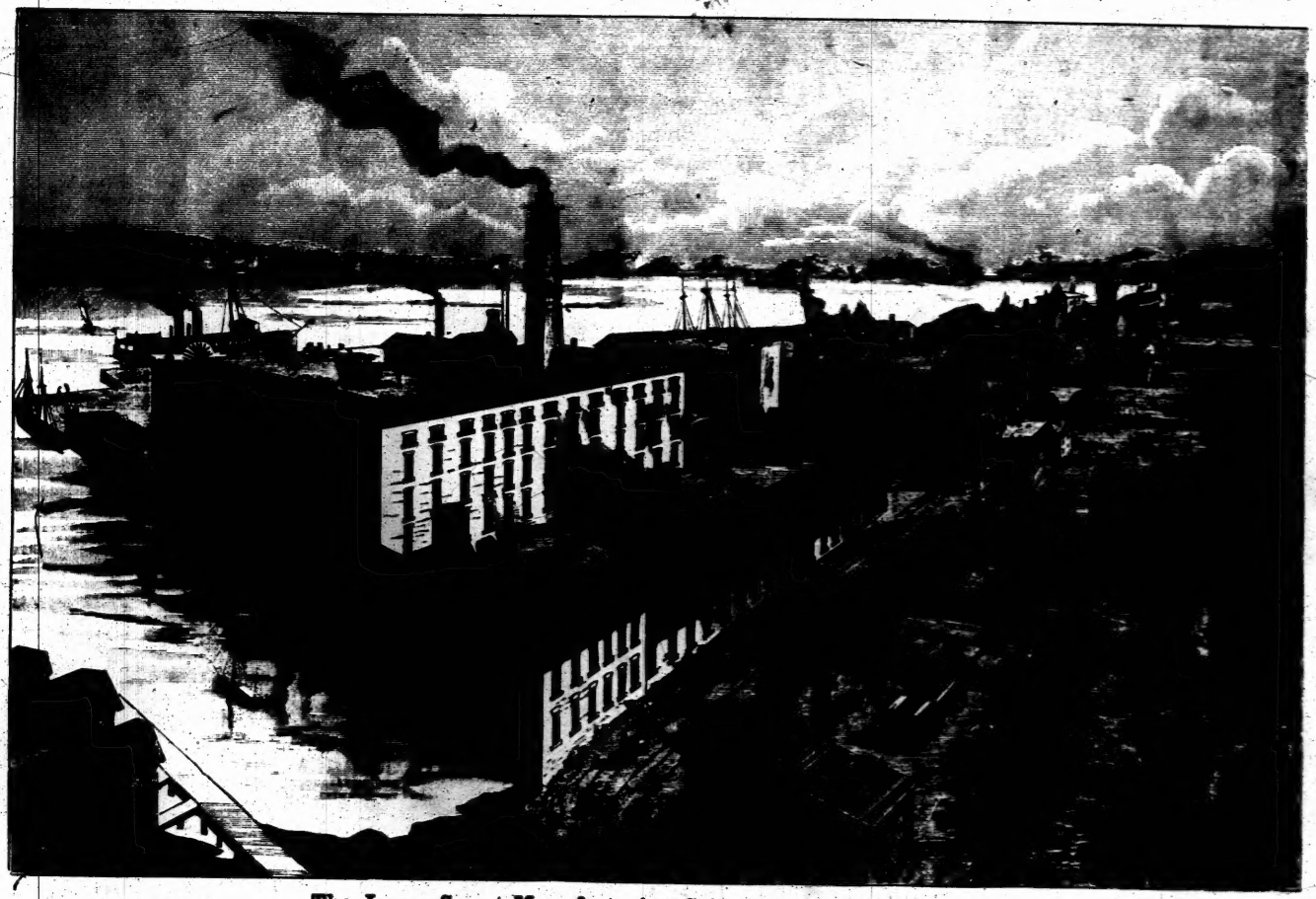

The James Smart Manufacturing Co's. Works, Brockville, Ont.

The James Smart Manufacturing Co's. Works, Brockville, Ont.

THE

JAMES SMART MANUFACTURING CO.

BROCKVILLE

(LIMITED)

HARDWARE - - CATALOGUE

1885

OFFICE, WAREHOUSES, AND WORKS

BROCKVILLE, ONT.

CANADA

McKay Bros., Printers, Toronto.

America
Ames' S
Anvils a
Automat
Automat
Auger G
Axle Pu

Babbit M
Baggage
Ball Pol
Ball Sha
Bands, C
Barn Do
Barn Do
Barn Do
Barn Do
Barn Do
Barrel B
Bed Cas
Bed Fas
Bedstead
Bells, D
Bells, D
Bench S
Bird Cag
Blacksm
Blind H
Blower S
Bolster
Bolts, B
Bolts, C
Bolts, F
Bolts, Sp
Bolts, Sc
Bolts, Sc
Book Ra
Boot Jac
Boring M
Boring M
" Boss "
Brace D
Braces,
Brackets
Brackets
Brass Sc
Bread P
Breast S
Building
Buttons,
Butts, L

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Sutherland

James Smart Manufacturing Co., Brockville, Ont.

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The James Smart Manufacturing Co., Brockville, O

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HARDWARE CATALOGUE,

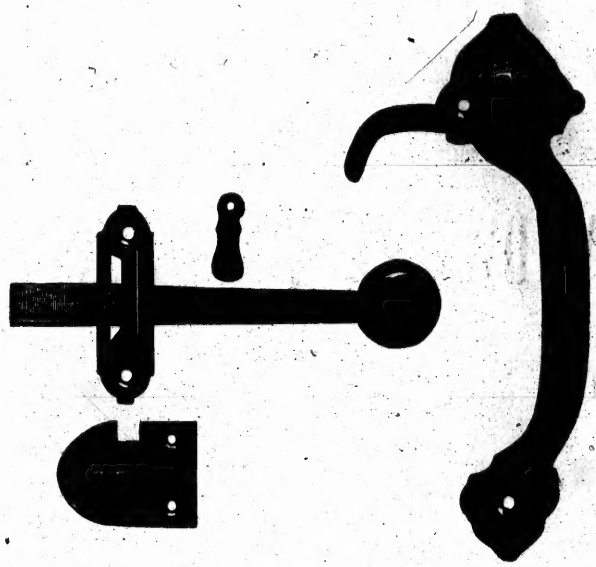
The James Smart Manufacturing Company,

BROCKVILLE, ONT.

1885.

ITALY

THUMB LATCHES.



HALF SIZE CUT NO. 2.

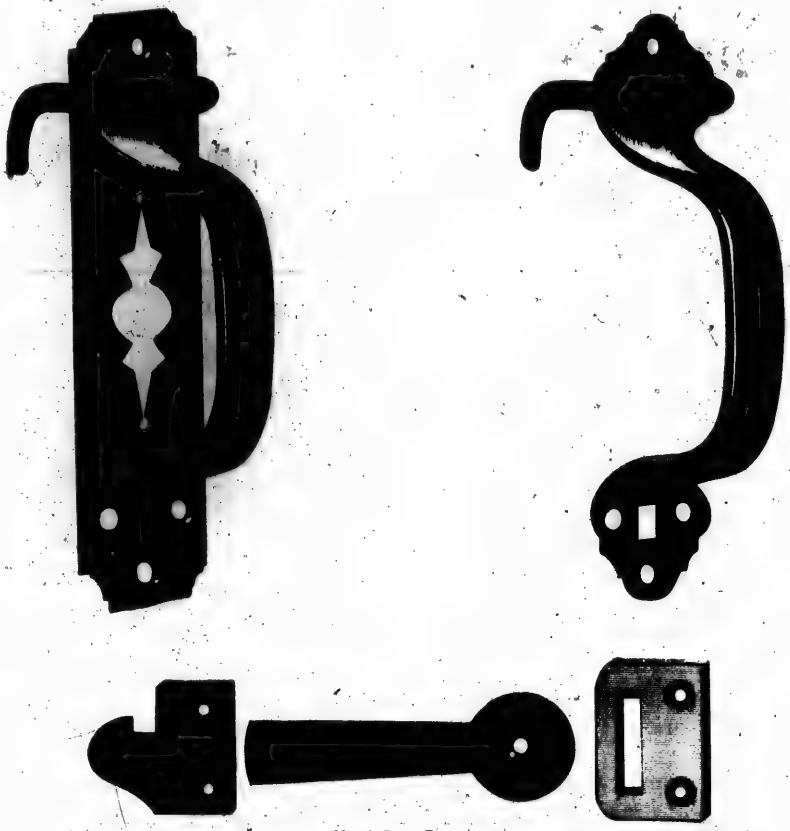
JAPANNED.

No. 1,	per dozen,	$0 80
No. 2,	per dozen,	90
No. 3,	per dozen,	1 00
No. 4,	per dozen,	1 25

Each set papered separately. One dozen in a box; twenty dozen in a case.

STORE DOOR HANDLES.

Russia



HALF SIZE CUTS.

Reversible, either Right or Left Hand.

EXTRA HEAVY LATCH, CATCH, AND SLIDE.

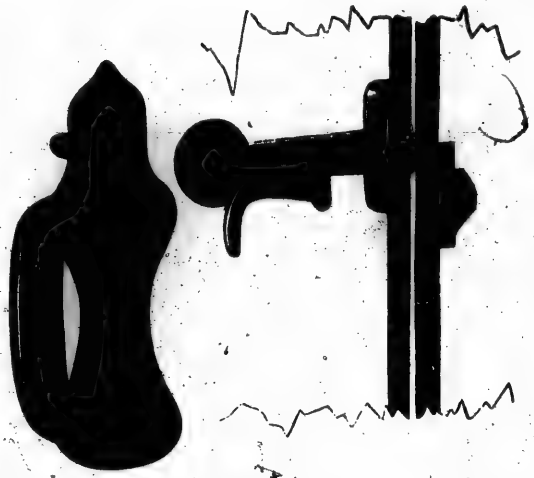
4-INCH LATCHES. 7½-INCH HANDLES.

No. 5, with plates,	per dozen,	$3 00
No. 105, without plates,	per dozen,	2 40

Each set papered separately. One dozen in box. Plates for No. 5 in separate package. Twelve dozen in case.

Japan

STORE DOOR HANDLES.



HALF SIZE CUT.

Reversible, either Right or Left Hand.

HANDLE, INCLUDING PLATE, 6½ INCHES LONG. LATCH, 4 INCHES.

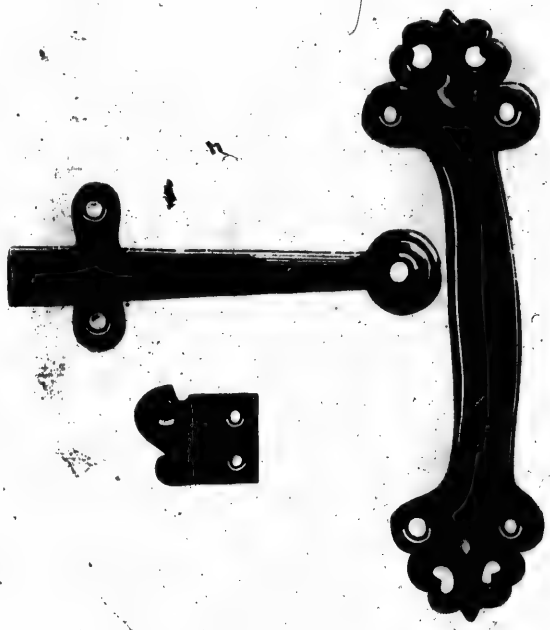
JAPANNED.

No. 9, - - - - - - - - - per dozen, $3 00

Each set papered separately. Half dozen in box; twelve dozen in case.

BARN DOOR LATCHES.

HEAVY.



HALF SIZE CUT.

HANDLE 9½ INCHES LONG. LATCH 6½ INCHES.

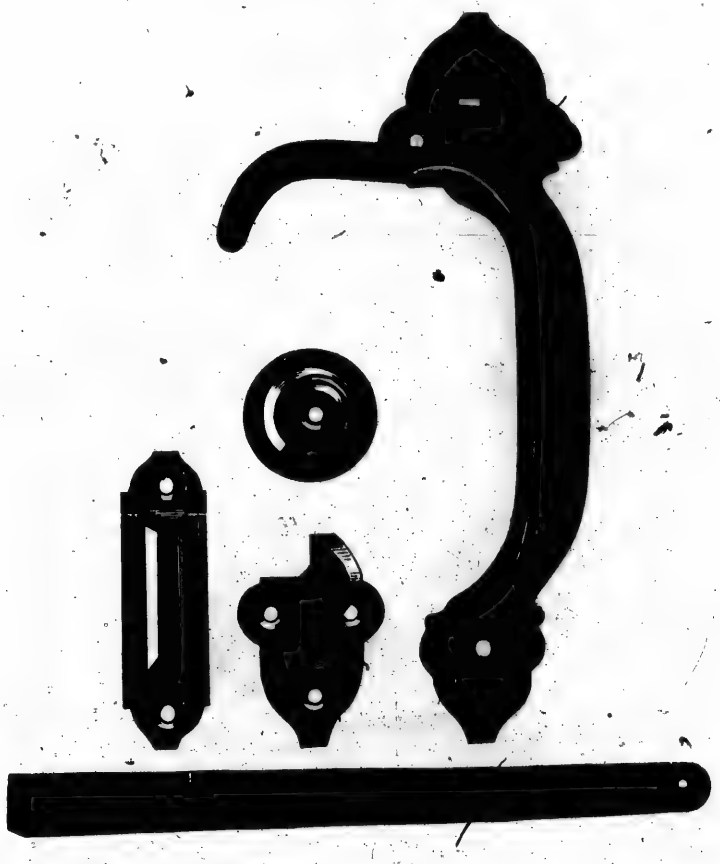
JAPANNED.

No. 6, complete, as per cut,	per dozen,	$2 50
No. 106, without handles,	per dozen,	1 50

Each set papered separately. Half dozen in box; six dozen in case.

BARN DOOR LATCHES.

EXTRA HEAVY.



HALF SIZE CUT.

WITH WROUGHT LATCH. 9½-INCH HANDLE; 9-INCH LATCH.

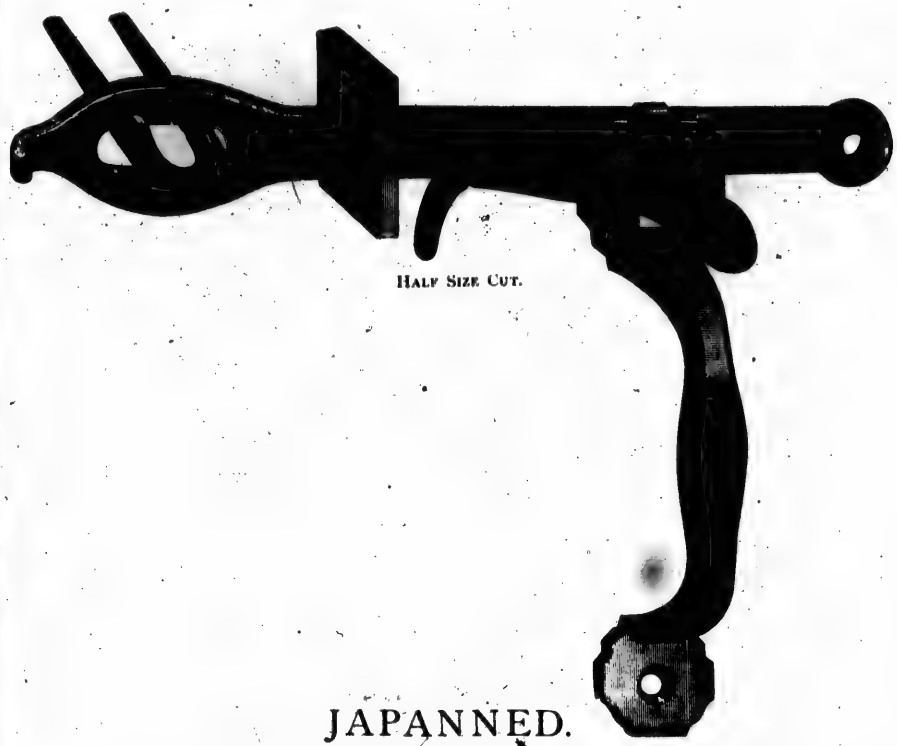
JAPANNED.

No. 7, complete as per cut,	- - - - - - - per dozen,	$4 00
No. 107, without handles,	- - - - - - - per dozen,	2 00

Each set papered separately. Half dozen in box; six dozen in case.

BARN DOOR LATCHES.

WITH HASP.



HALF SIZE CUT.

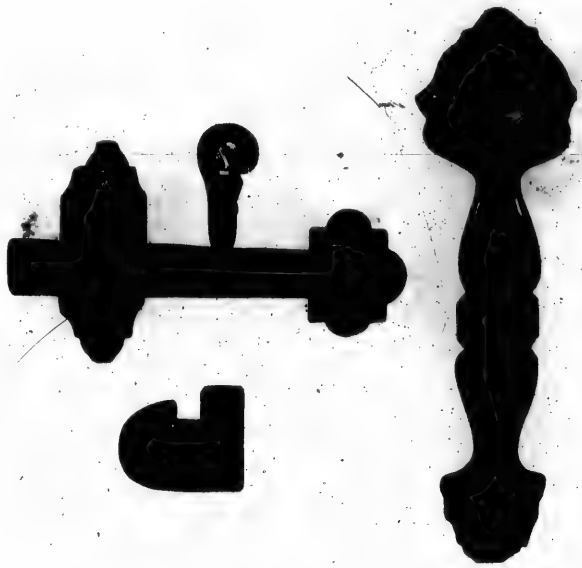
JAPANNED.

EXTRA HEAVY TWELVE-INCH HASP, WITH MALLEABLE STAPLE CATCH.
NINE-INCH HANDLE.

No. 8, complete, as per cut, - - - - - - - per dozen, $4 20

Each set papered separately. One dozen in box; six dozen in case.

THUMB LATCHES.



HALF SIZE CUT.

HANDLE, 6½ INCHES LONG. LATCH, 4¼ INCHES.

BERLIN BRONZED, POLISHED.

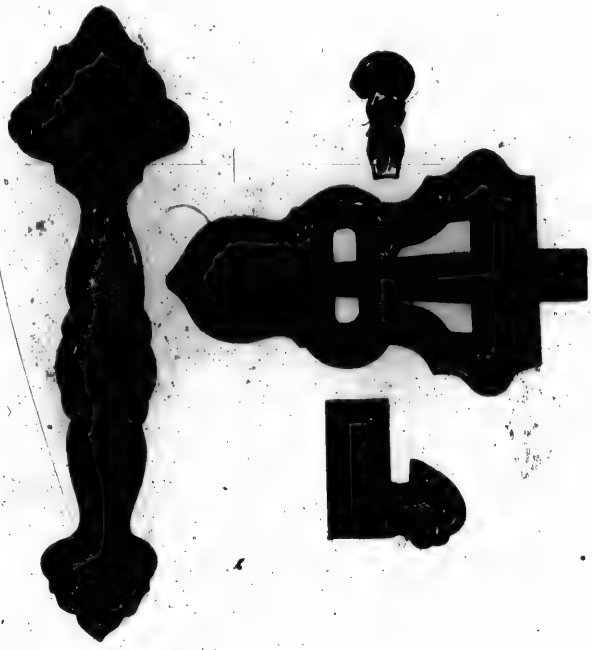
No. 15, packed with screws, - - - - - - per dozen, $2 50

BERLIN BRONZED, PLAIN.

No. 115, packed with screws, - - - - - per dozen, $2 00

Each set papered separately. One dozen in box; twenty dozen in case.

COTTAGE LATCHES.



HALF SIZE CUT.

HANDLE, 7¼ INCHES. LATCH, 4¼ INCHES.

BERLIN BRONZED, POLISHED.

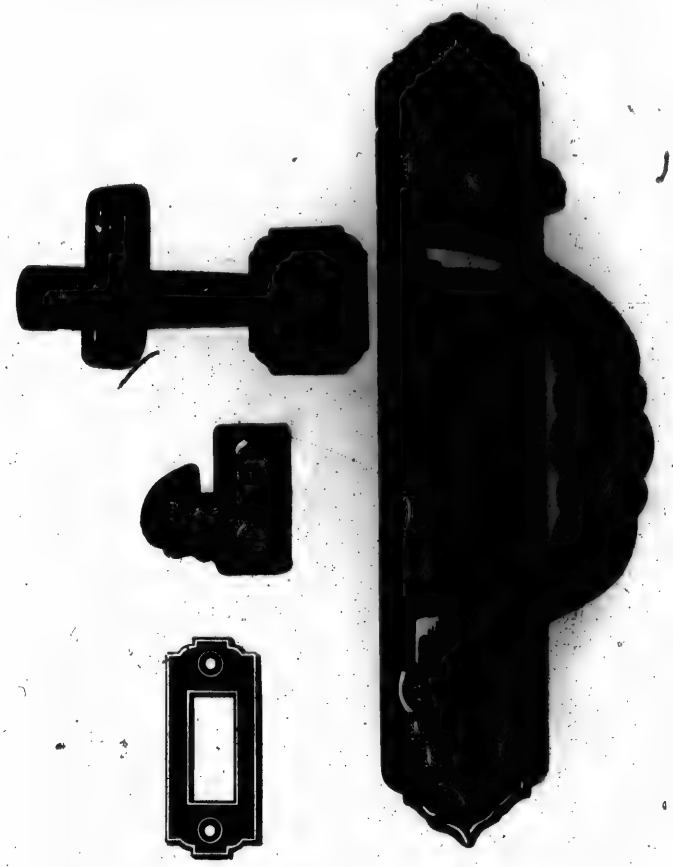
No. 25, packed with screws, - - - - - per dozen, $2 50

BERLIN BRONZED, PLAIN.

No. 125, packed with screws, - - - - - per dozen, $2 00

Each set papered separately. Half dozen in box ; twelve dozen in case.

STORE DOOR HANDLES.



Two-Thirds Size Cut.

HANDLE, 8 INCHES. PLATE, 9¼ INCHES. LATCH, 3⅛ INCHES.

Reversible, either Right or Left Hand.

BERLIN BRONZED, POLISHED.

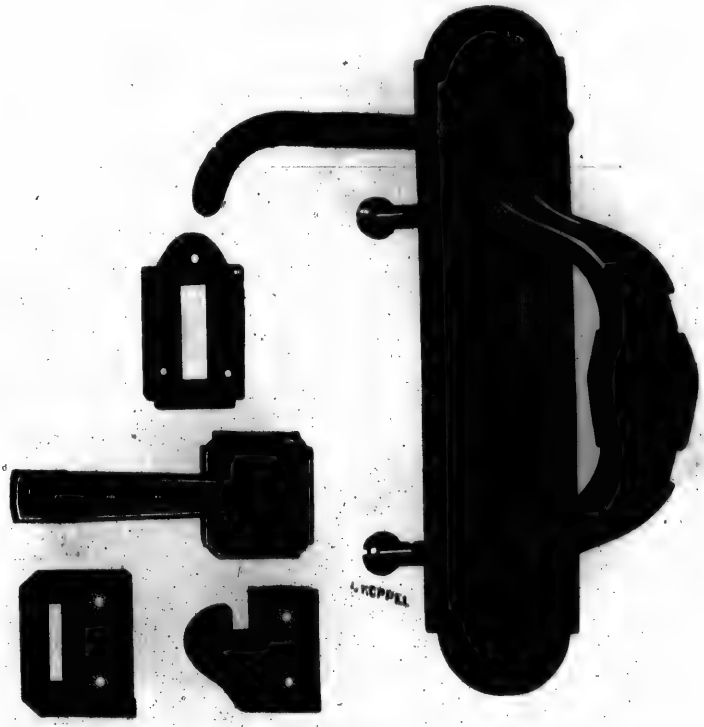
No. 20, with plates, packed with screws,	per dozen,	$5 50
No. 201, without plates, packed with screws,	per dozen,	4 65

BERLIN BRONZED, PLAIN.

No. 120, with plates, packed with screws,	per dozen,	$4 50
No. 1201, without plates, packed with screws,	per dozen,	3 80

Each set papered separately. Half dozen in box; eight dozen in case.

STORE DOOR HANDLES.



HALF SIZE CUT.

HANDLE, 5¼ INCHES. PLATE, 9 INCHES. LATCH, 3½ INCHES.

Reversible, either Right or Left Hand.

BERLIN BRONZED, POLISHED.

No 30, Packed with screws, - - - - - - - per dozen, $6 00

Each set papered separately. One-third dozen in box. Six dozen in case.

DOOR PULLS.

No. 1.
For two Screws.

No. 2.
For six Screws.

No. 3.
For four Screws.

HALF SIZE CUTS.

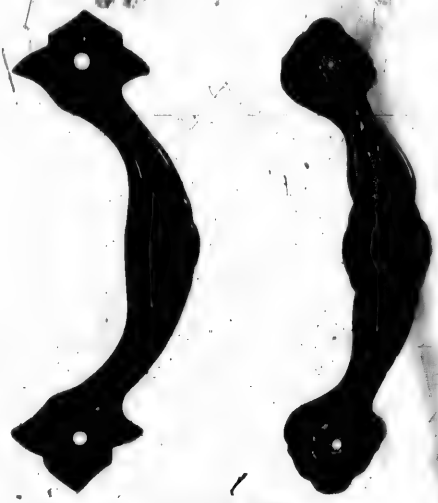
JAPANNED.

No. 1, 6 inches long,	per gross,	$ 5 50
No. 2, 6¼ inches long,	per gross,	6 50
No. 3, 7½ inches long,	per gross,	14 40

NO. 3 IS EXTRA HEAVY.

Two dozen in a box.

DOOR PULLS.



HALF SIZE CUTS.

Nos. 15 and 115.	Nos. 20 and 120
6¼ INCHES LONG.	6¼ INCHES LONG.
For two Screws.	For two Screws.

BERLIN BRONZED, POLISHED.

No. 15, packed with screws,	per dozen,	$1 00
No. 20, packed with screws,	per dozen,	1 00

BERLIN BRONZED, PLAIN.

No. 115, packed with screws,	per dozen,	$0 70
No. 120, packed with screws,	per dozen,	70

One dozen in box.

HAT AND COAT HOOKS.

FULL SIZE CUT.

Nos. 0 and 100. For two screws.

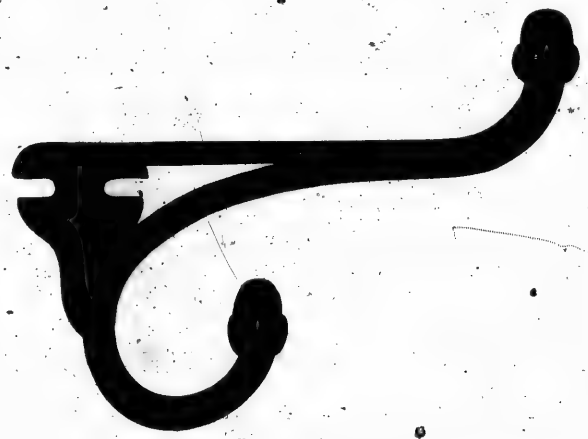
JAPANNED.

No. 0, - - - - - - - - - - - - per gross, $1 70

COPPERED.

No. 100, - - - - - - - - - - - per gross, $1 90

Half gross in box.



FULL SIZE CUT.

Nos. 1 and 101. For two screws.

JAPANNED.

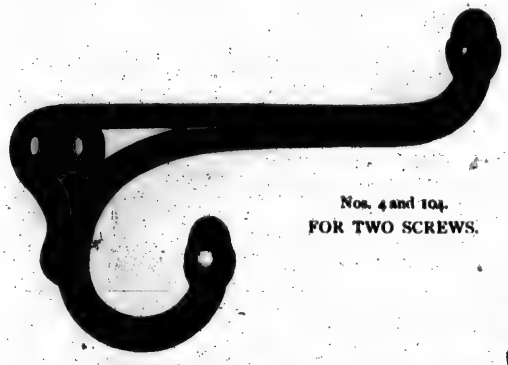
No. 1, - - - - - - - - - - - - per gross, $2 50

COPPERED.

No. 101, - - - - - - - - - - - - per gross, 2 70

Half gross in box.

HAT AND COAT HOOKS.



Nos. 4 and 104.
FOR TWO SCREWS.

FULL SIZE CUT.

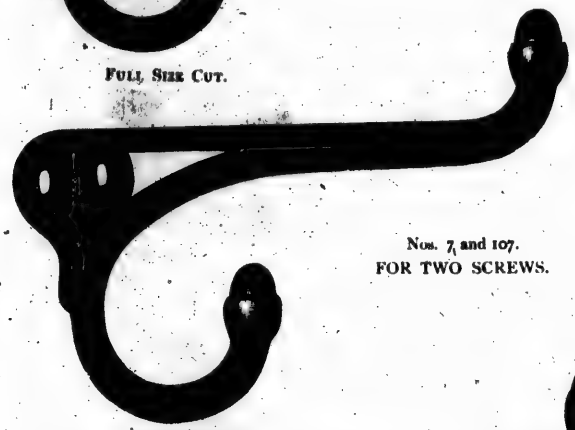
JAPANNED.

No. 4, ... per gross, $2 00

COPPERED.

No. 104, ... per gross, $2 20

Half gross in box.



Nos. 7 and 107.
FOR TWO SCREWS.

FULL SIZE CUT.

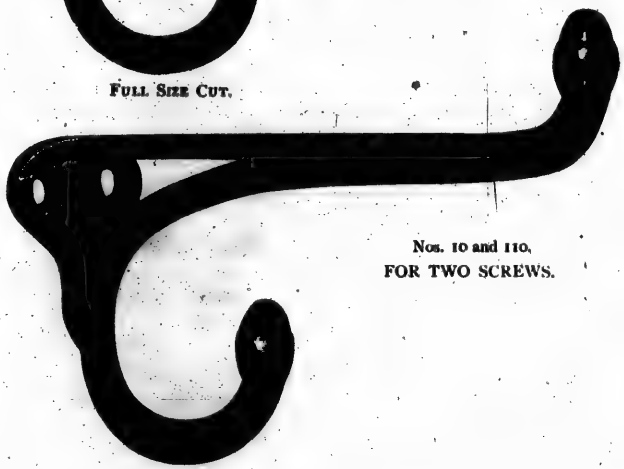
JAPANNED.

No. 7, ... per gross, $2 80

COPPERED.

No. 107, . . . per gross, $3 00

Half gross in box.



Nos. 10 and 110.
FOR TWO SCREWS.

FULL SIZE CUT.

JAPANNED.

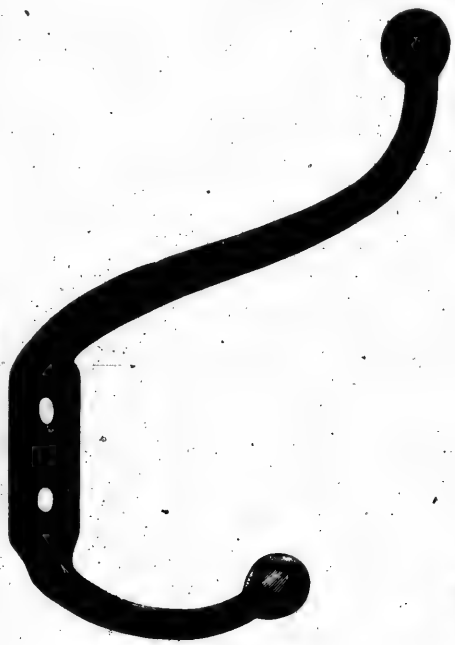
No. 10, . . . per gross, $3 20

COPPERED.

No. 110, . per gross. $3 40

Half gross in box.

HAT AND COAT HOOKS.



FULL SIZE CUT.
Nos. 6 and 106. For two screws.

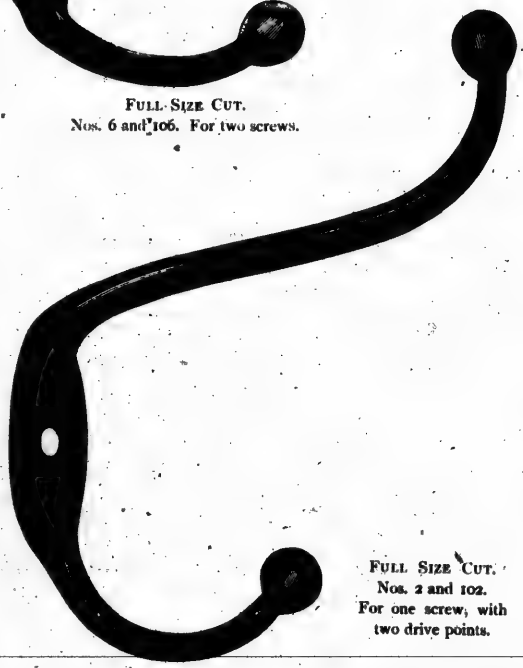
JAPANNED.

No. 6, ... per gross, $2 70

COPPERED.

No. 106, ... per gross, $2 90

One-half gross in box.



FULL SIZE CUT.
Nos. 2 and 102.
For one screw, with two drive points.

JAPANNED.

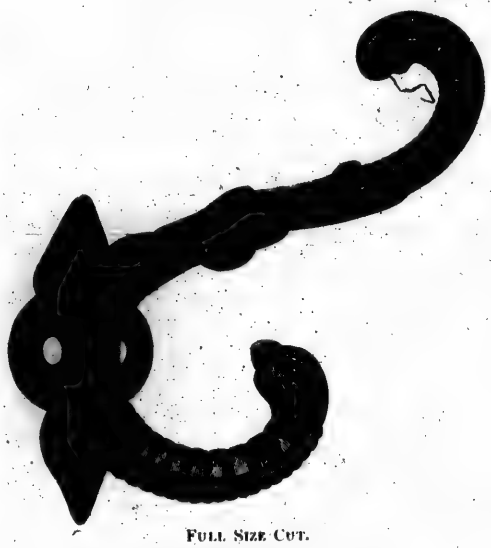
No. 2, ... per gross, $2 80

COPPERED.

No. 102, ... per gross, $3 00

One-half gross in box.

HAT AND COAT HOOKS.



FULL SIZE CUT.
Nos. 25 and 125. For two screws.

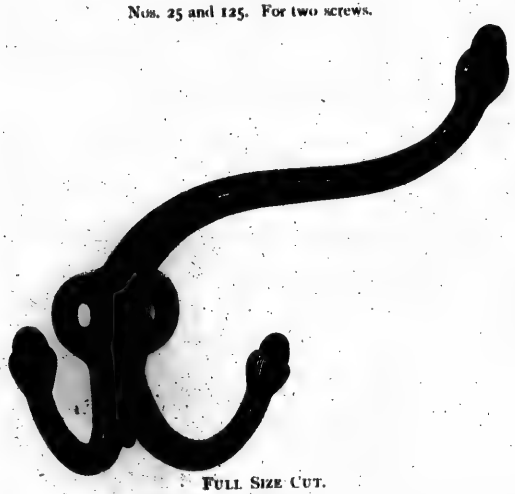
JAPANNED.

No. 25, ... per gross, $3 20

COPPERED.

No. 125, ... per gross, $3 40

Half gross in box.



FULL SIZE CUT.
Nos. 15 and 115. For two screws.

JAPANNED.

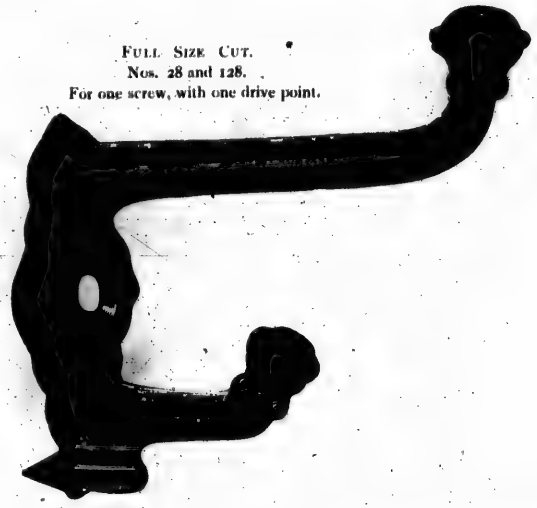
No. 15, ... per gross, $3 50

COPPERED.

No. 115, ... per gross, $3 70

Half gross in box.

HAT AND COAT HOOKS.



FULL SIZE CUT.
Nos. 28 and 128.
For one screw, with one drive point.

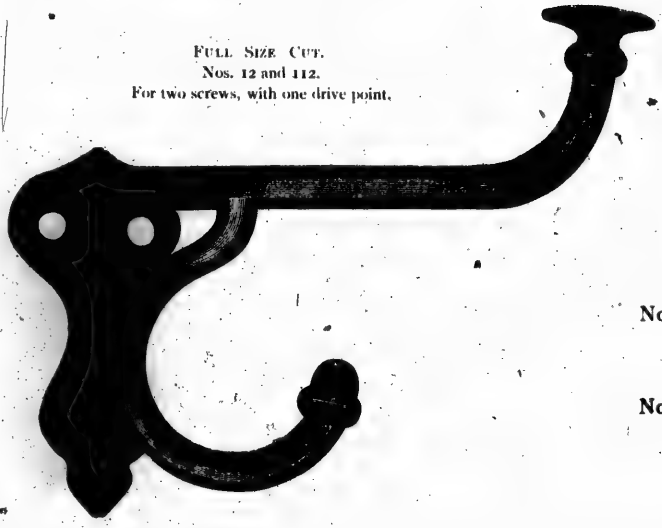
JAPANNED.

No. 28, . . . per gross, $3 70

COPPERED.

No. 128, . . . per gross, $3 90

Half gross in box.



FULL SIZE CUT.
Nos. 12 and 112.
For two screws, with one drive point.

JAPANNED.

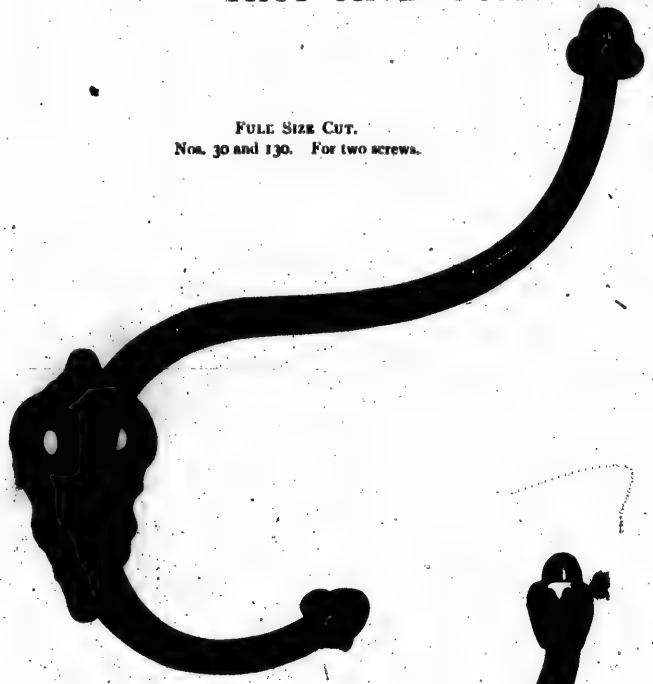
No. 12, . . . per gross, $4 70

COPPERED.

No. 112, . . . per gross, $4 90

One-third gross in box.

HAT AND COAT HOOKS.



FULL SIZE CUT.
Nos. 30 and 130. For two screws.

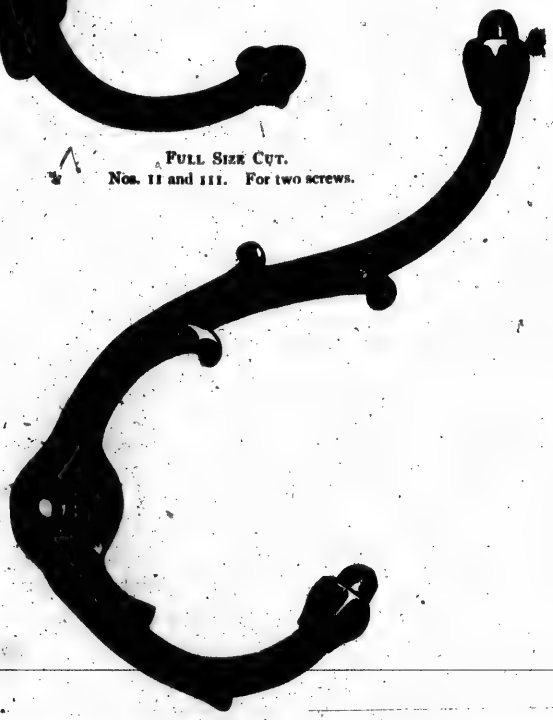
JAPANNED.

No. 30, . . per gross, $4 00

COPPERED.

No. 130, . . per gross, $4 20

One-third gross in box.



FULL SIZE CUT.
Nos. 11 and 111. For two screws.

JAPANNED.

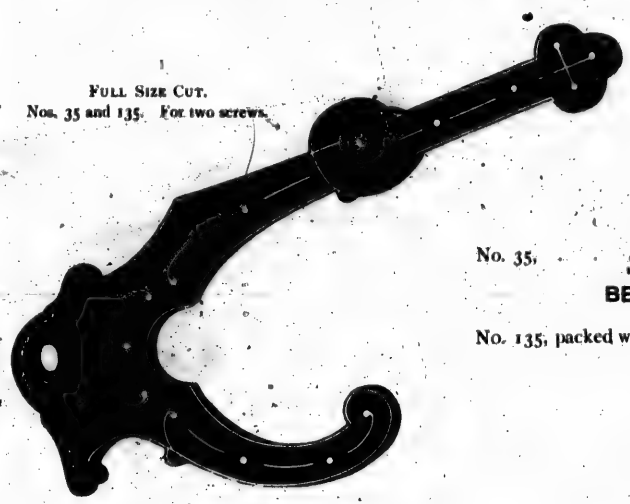
No. 11, . . per gross, $4 50

COPPERED.

No. 111. . . per gross, $4 70

One-third gross in box.

HAT AND COAT HOOKS



FULL SIZE CUT.
Nos. 35 and 135. For two screws.

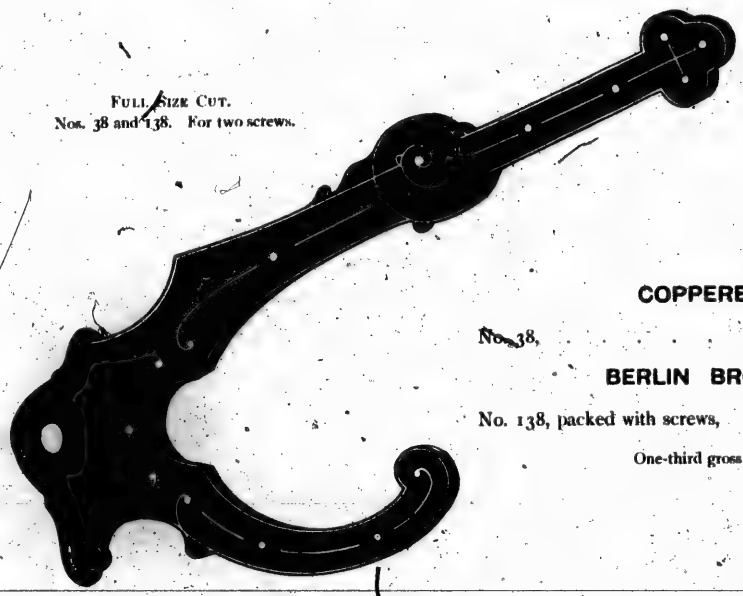
COPPERED.

No. 35, ... per gross, $4 00

BERLIN BRONZED.

No. 135, packed with screws, . . . per gross, $6 00

One-third gross in box.



FULL SIZE CUT.
Nos. 38 and 138. For two screws.

COPPERED.

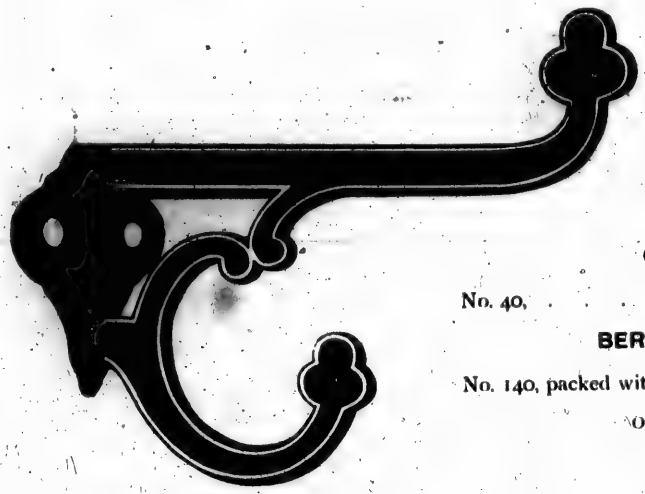
No. 38, ... per gross, $6 00

BERLIN BRONZED.

No. 138, packed with screws, . . . per gross, $7 50

One-third gross in box.

HAT AND COAT HOOKS.



FULL SIZE CUT.
Nos. 40 and 140. For two screws.

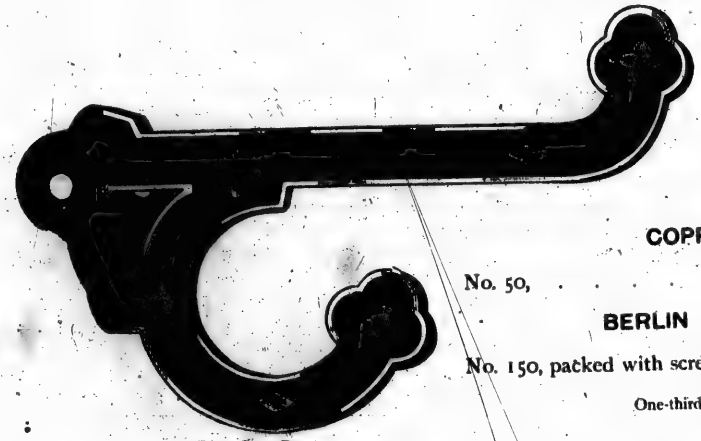
COPPERED.

No. 40, ... per gross, $4 80

BERLIN BRONZED.

No. 140, packed with screws, . . . per gross, $6 00

One-third gross in box.



FULL SIZE CUT.
Nos. 50 and 150. For two screws

COPPERED.

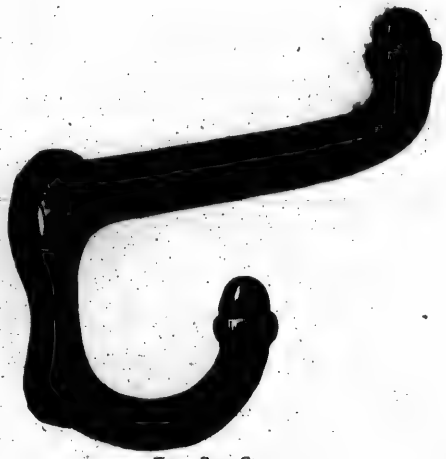
No. 50, ... per gross, $4 80

BERLIN BRONZED.

No. 150, packed with screws, . . . per gross, $6 00

One-third gross in box.

HOTEL OR SCHOOL HOUSE HOOKS.



FULL SIZE CUT.
Nos. 17 and 117. For two screws.

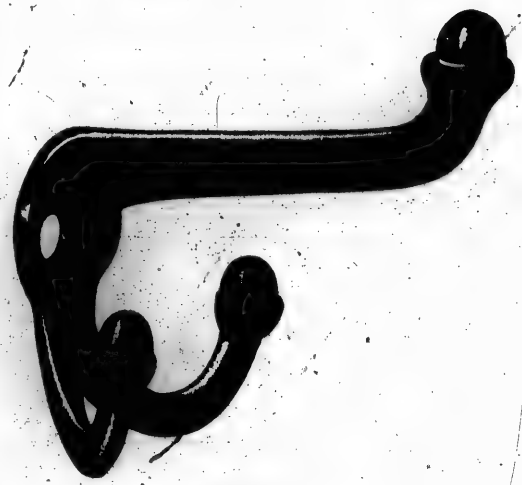
JAPANNED.

No. 17, ... per gross, $4 00

COPPERED.

No. 117, ... per gross, $4 30

Half gross in box.



FULL SIZE CUT.
Nos. 17½ and 117½. For two screws.

JAPANNED.

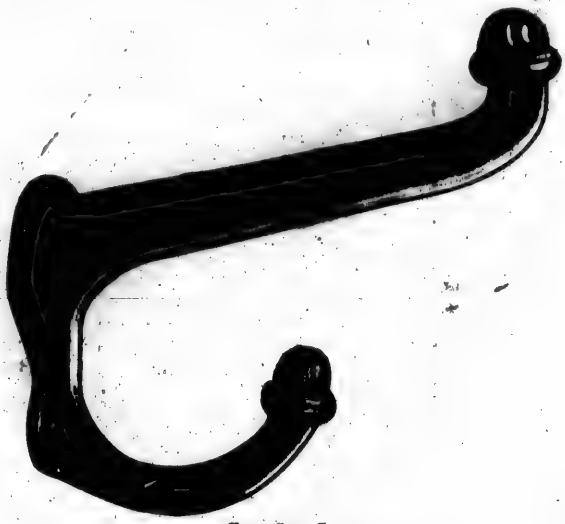
No. 17½, ... per gross, $4 50

COPPERED.

No. 117½, ... per gross, $4 70

One-third gross in box.

HOTEL OR SCHOOL HOUSE HOOKS.



FULL SIZE CUT.
Nos. 18 and 118. For two screws.

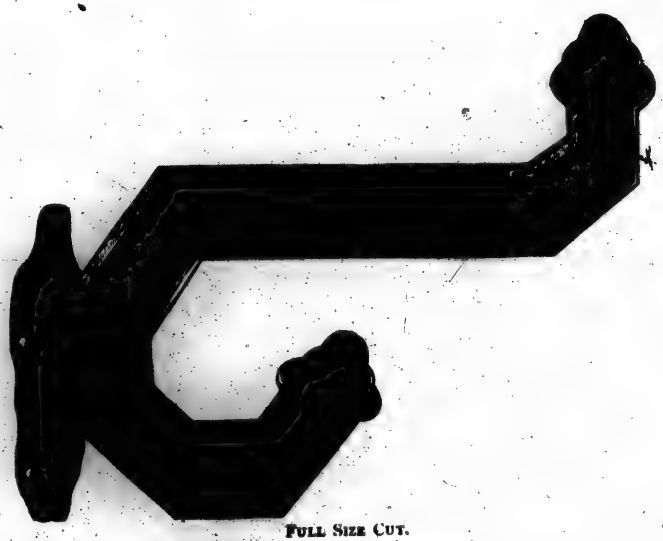
JAPANNED.

No. 18, . . . per gross, $4 30

COPPERED.

No. 118, . . . per gross, $4 50

One-third gross in box.



FULL SIZE CUT.
Nos. 90 and 190. For two screws.

COPPERED.

No. 90, . per gross, $5 00

BERLIN BRONZED.

Packed with screws.

No. 190, . per gross. $6 25

Quarter gross in box.

HOTEL OR SCHOOL HOUSE HOOKS

FULL SIZE CUT.
Nos. 19 and 119. For four screws.

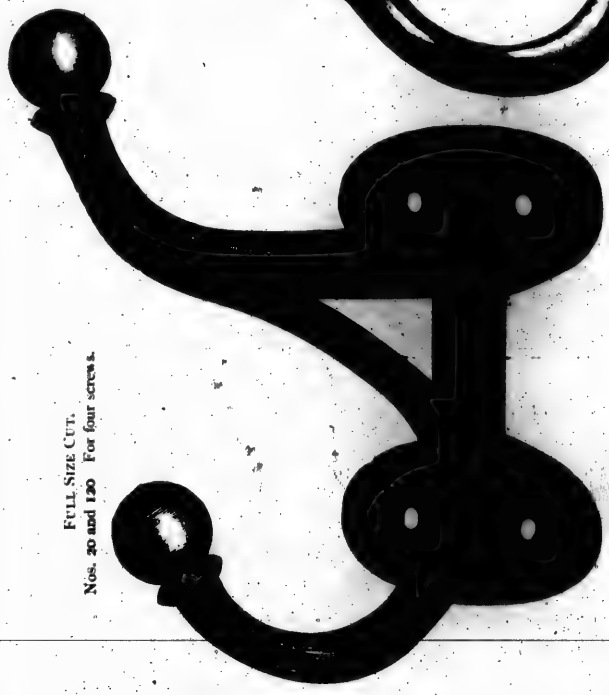
JAPANNED.

No. 19, . per gross, $6 00

COPPERED.

No. 119, per gross, $6 20

One-third gross in box.



FULL SIZE CUT.
Nos. 20 and 120 For four screws.

JAPANNED.

No. 20, . . . per gross, $10 50

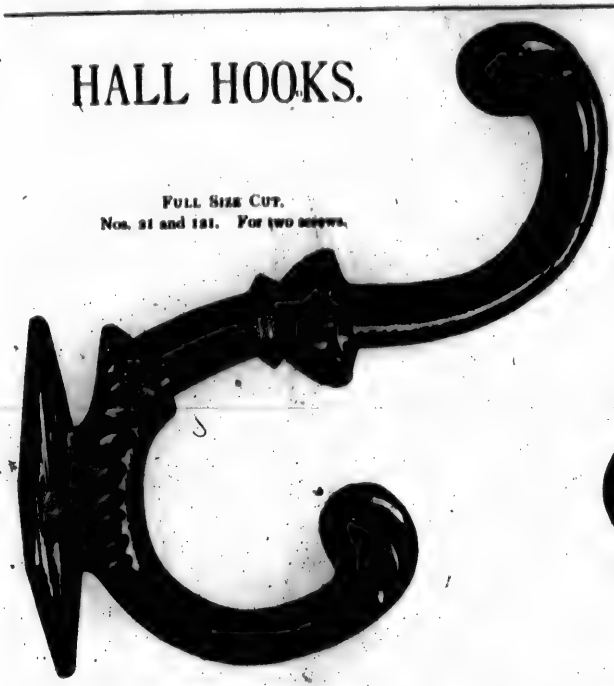
COPPERED.

No. 120, . . per gross, $ 10 70

One dozen in a package.

EXTRA HEAVY.

HALL HOOKS.



FULL SIZE CUT.
Nos. 21 and 121. For two screws.

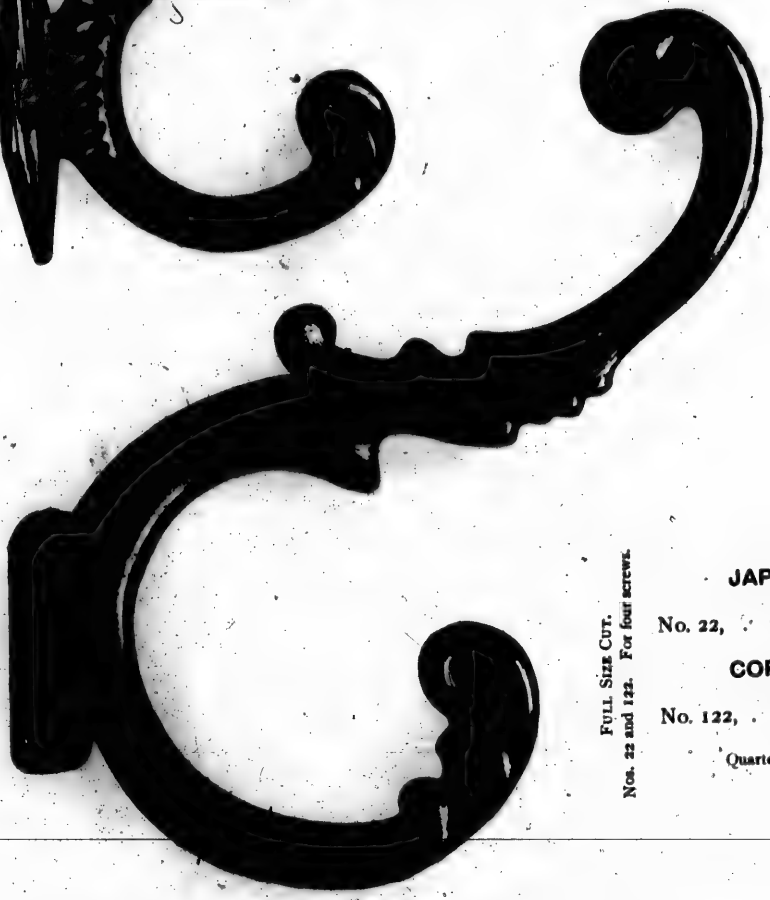
JAPANNED.

No. 21, . per gross, $9 60

COPPERED.

No. 121, . per gross, $12 00

Quarter gross in box.



FULL SIZE CUT.
Nos. 22 and 122. For four screws.

JAPANNED.

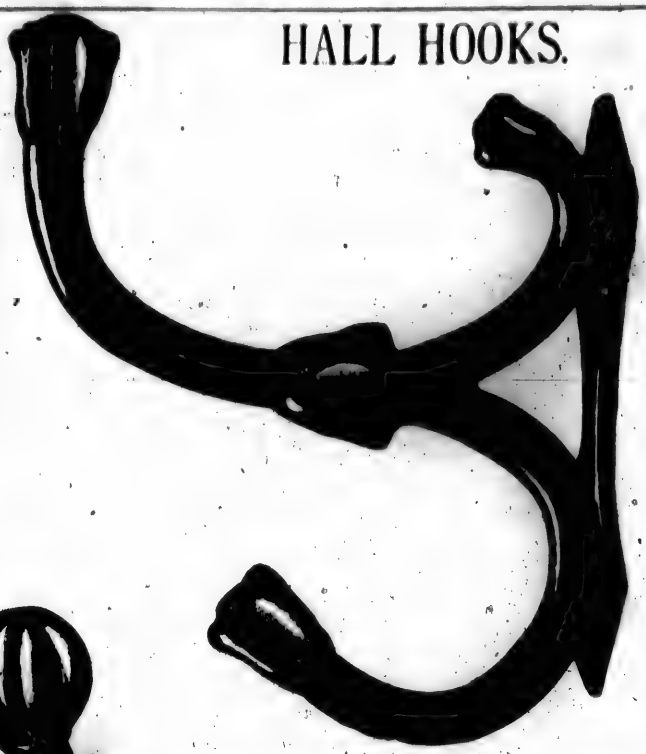
No. 22, . per gross, $14 40

COPPERED.

No. 122, . per gross, $16 80

Quarter gross in box.

HALL HOOKS.



FULL SIZE CUT.
Nos. 14 and 114. For four screws.

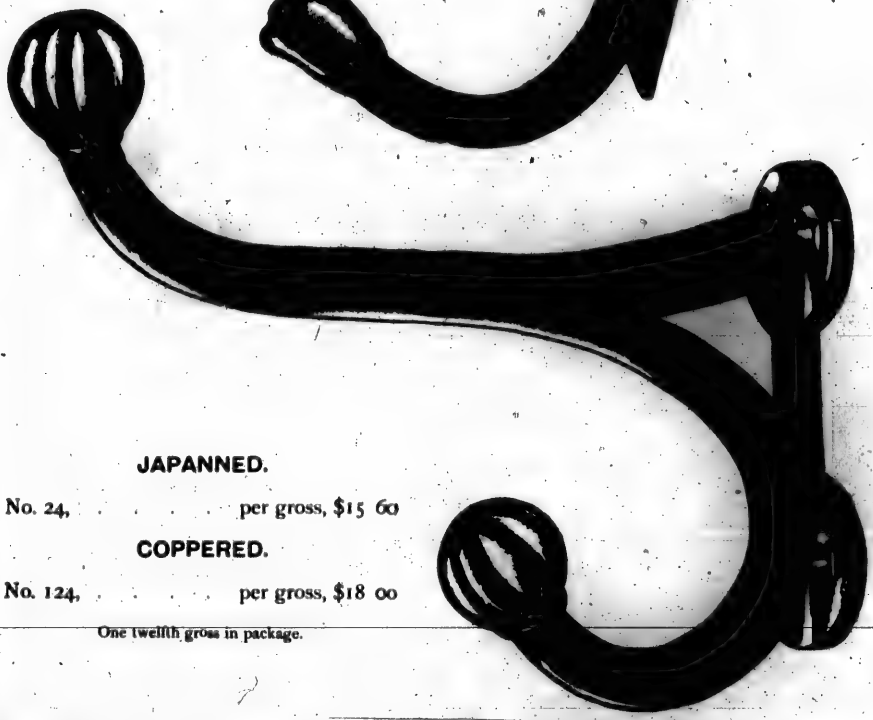
JAPANNED.

No. 14, . per gross, $7 50

COPPERED.

No. 114, . per gross, $7 70

One third gross in box.



FULL SIZE CUT.
No. 24 and 124. For four screws.

JAPANNED.

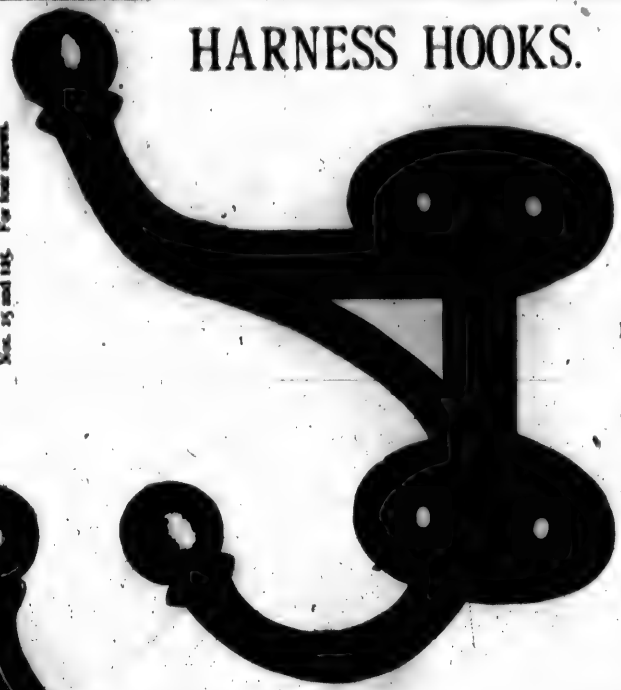
No. 24, ... per gross, $15 60

COPPERED.

No. 124, ... per gross, $18 00

One twelfth gross in package.

HARNESS HOOKS.



FULL SIZE CUT.
Nos. 25 and 125. For four screws.

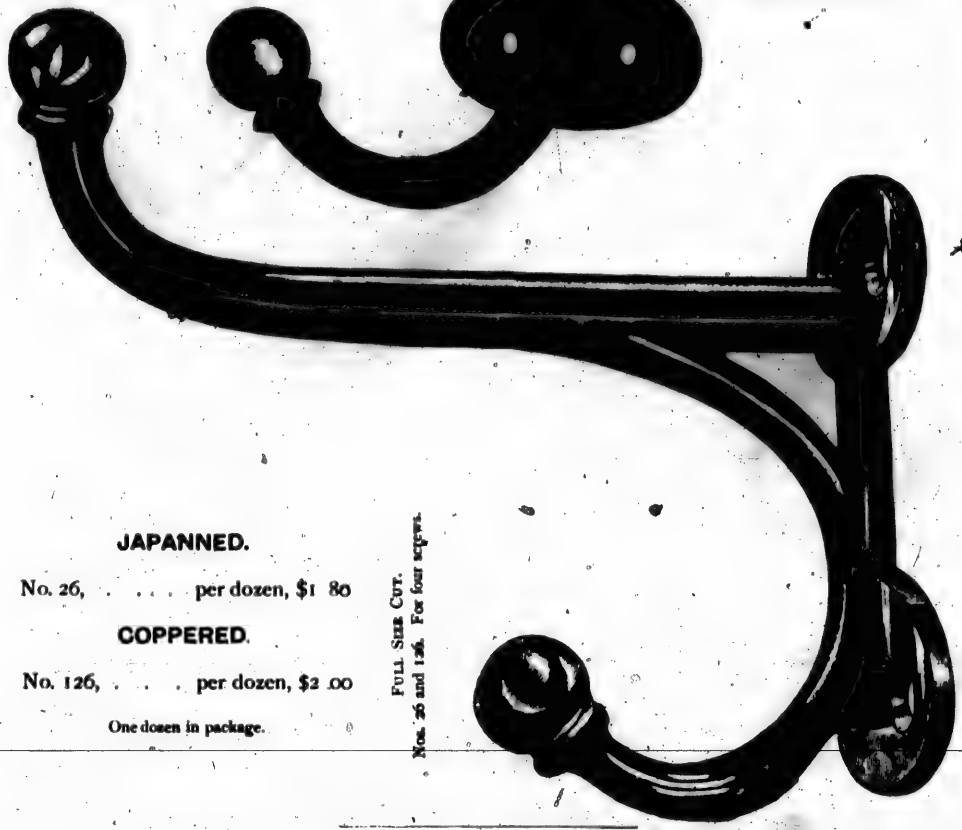
JAPANNED.

No. 25, . per doz., $1 30

COPPERED.

No. 125, per doz., $1 60

One dozen in package.



FULL SIZE CUT.
Nos. 26 and 126. For four screws.

JAPANNED.

No. 26, ... per dozen, $1 80

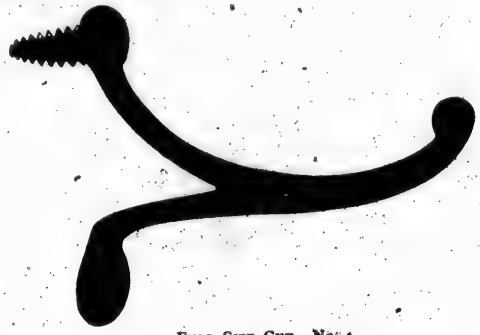
COPPERED.

No. 126, ... per dozen, $2 00

One dozen in package.

WARDROBE HOOKS.

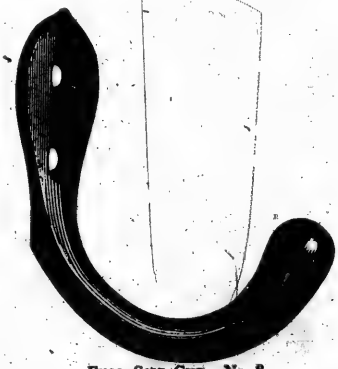
FULL SIZE CUT. No. 2.
For one screw, with one drive point.



FULL SIZE CUT. No. 4.
To screw in.

FULL SIZE CUT. No. 5.
For two screws.

FULL SIZE CUT. No. 6.
For one screw, with one drive point.



FULL SIZE CUT. No. 8.
For two screws.

JAPANNED.

No.	2	4	5	6	8
Per gross,	$1 00	$1 20	$1 20	$1 00	$1 20

No. 2, one gross in box. Nos. 4 to 8, half gross in box.

FULL SIZE CUT.
No. 4 Lamp Hook.

LAMP HOOKS.

JAPANNED.

No. 1, 1⅜-inch screw, 1⅝-inch hook,	per gross,	$2 00
No. 2, 1½-inch screw, 1¾-inch hook,	per gross,	2 50
No. 3, 1⅞-inch screw, 2⅛-inch hook,	per gross,	3 20
No. 4, 2⅜-inch screw, 2⅜-inch hook,	per gross,	4 80

Half gross in box.

CHANDELIER HOOKS.

BERLIN BRONZED, POLISHED.

Three-inch, 3-inch screw, 2½-inch hook,	per dozen,	$1 40
Two dozen in box.		
Four-inch, 4-inch screw, 3½-inch hook,	per dozen,	1 70
One dozen in box.		

FULL SIZE CUT.
3-inch Chandelier Hook.

BIRD CAGE HOOKS.

HALF SIZE CUT. No. 1.

FIXED. TO SCREW IN.

BERLIN BRONZED, POLISHED.

No. 1, 8 inches long, ... per dozen, $1 20

One dozen in package.

HALF SIZE CUT. NOS. 2 AND 12.

(Original Design, Registered.)

9 INCHES LONG. SWINGING. TO FASTEN WITH TWO SCREWS.

BERLIN BRONZED, POLISHED.

No. 2, packed with screws, ... per dozen, $1 50

NICKEL PLATED.

No. 12, packed with screws, ... per dozen, $5 00

One dozen in package.

HALF SIZE CUT. No. 3.

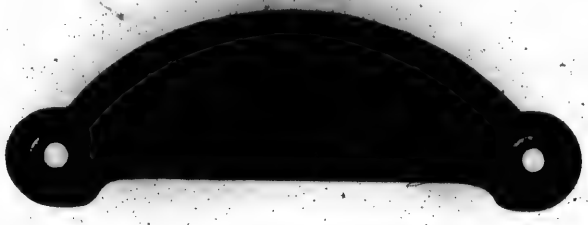
FIXED. TO HANG ON NAIL.

BERLIN BRONZED, POLISHED.

No. 3, 9½ inches long, . . . per dozen, 1 50

One dozen in box.

DRAWER PULLS.



FULL SIZE CUT. NOS. 1 AND 101.

JAPANNED.

No. 1, 4 x 1⅛ inches, ... per gross, $2 60

COPPERED.

No. 101, 4 x 1⅛ inches . . . . . per gross, $2 80

Half gross in a box.

HALF SIZE CUT. NOS. 2 AND 102.

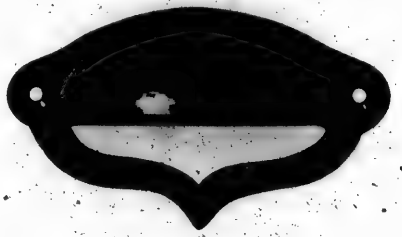
JAPANNED.

No. 2, 4 x 2 inches, ... per gross, $3 00

COPPERED.

No. 102, 4 x 2 inches, ... per gross, $3 20

One third gross in box.



HALF SIZE CUT. NOS. 3 AND 103.

JAPANNED.

No. 3, 4 x 2½ inches . . . . . per gross, $3 20

COPPERED.

No. 103, 4 x 2½ inches, ... per gross, $3 40

One quarter gross in box.

DRAWER PULLS.

HALF SIZE CUT. No 6.

BERLIN BRONZED.

No. 6, 3⅝ x 1½ inches, packed with screws, . . . per gross, $4 80
No. 7, 4⅛ x 1½ inches, packed with screws, . . . per gross, 5 30

Quarter gross in box.

HALF SIZE CUT. NOS. 8 AND 18.

JAPANNED.

No. 8, 4⅛ x 1⅝ inches, . . . per gross, $3 80

COPPERED.

No. 18, 4⅛ x 1⅝ inches, . . . per gross, 4 00

Quarter gross in box.

HALF SIZE CUT. NO. 11.

BERLIN BRONZED.

No. 11, 4⅛ x 1¾ inches, packed with screws, . . . per gross, $5 50
No. 35, 4⅝ x 2 inches, packed with screws, . . . per gross, 6 00

One quarter gross in box.

7

TWO-THIRDS SIZE CUT. No. 25.

BERLIN BRONZED.

No. 20, 3¼ x 1½ inches, packed with screws, . . . per gross, $4 70
No. 25, 4¾ x 1¾ inches, packed with screws, . . . per gross, 6 50

One-quarter gross in box.

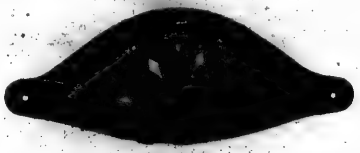
DRAWER PULLS.

HALF SIZE CUT. No. 45.

BERLIN BRONZED.

No. 40, 3⅛ x 1⅝ inches, packed with screws,	per gross, $5 00
No. 45, 3⅝ x 1¾ inches, packed with screws,	per gross, 5 30

One-quarter gross in box.



HALF SIZE CUT. No. 55.

BERLIN BRONZED.

No. 50, 3¼ x 1½ inches, packed with screws,	per gross, $5 00
No. 55, 4⅛ x 1½ inches, packed with screws,	per gross, 5 50
No. 60, 4⅝ x 1⅝ inches, packed with screws,	per gross, 6 00

One-quarter gross in box.

HALF SIZE CUT. No. 65.

BERLIN BRONZED.

With blank space for label.

No. 65, 4¾ x 2⅝ inches, packed with screws,	per gross, $7 00

One-quarter gross in box.

DRAWER PULLS.

(Original Designs, Registered.)

FULL SIZE CUT. Nos. 70, 170, 270, 370.

No. 70, 2½ x 1¼ inches, Japanned,	per gross,	$ 2 40
No. 170, 2½ x 1¼ inches, Copper Bronzed,	per gross,	2 60
No. 270, 2½ x 1¼ inches, Berlin Bronzed, packed with screws,	per gross,	4 00
No. 370, 2½ x 1¼ inches, Nickel Plated, packed with screws,	per gross,	10 00

Nos. 70 and 170, one-half gross in box. Nos. 270 and 370, one-quarter gross in box.

FULL SIZE CUT. Nos. 75, 175, 275, and 375.

No. 75, 3¼ x 1¼ inches, Japanned,	per gross,	$ 3 20
No. 175, 3¼ x 1¼ inches, Copper Bronzed,	per gross,	3 40
No. 275, 3¼ x 1¼ inches, Berlin Bronzed, packed with screws,	per gross,	5 00
No. 375, 3¼ x 1¼ inches, Nickel Plated, packed with screws,	per gross,	13 00

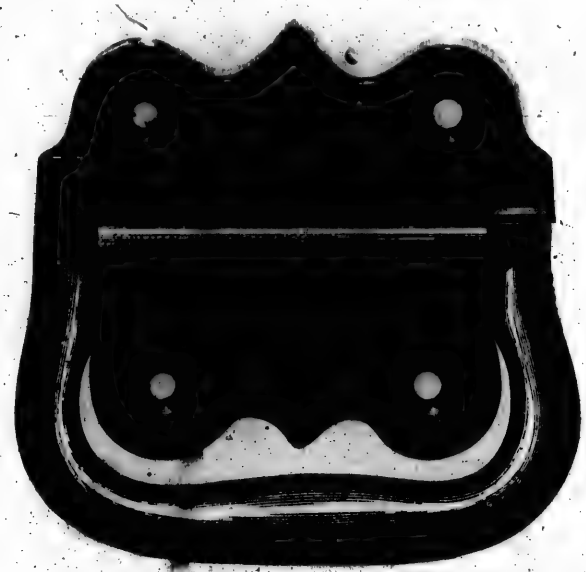
Nos. 75 and 175, one-half gross in box. Nos. 275 and 375, one-quarter gross in box.

FULL SIZE CUT. Nos. 80, 180, 280 and 380.

No. 80, 4 x 1¼ inches, Japanned,	per gross,	$ 4 00
No. 180, 4 x 1¼ inches, Copper Bronzed,	per gross,	4 20
No. 280, 4 x 1¼ inches, Berlin Bronzed, packed with screws,	per gross,	6 00
No. 380, 4 x 1¼ inches, Nickel Plated, packed with screws,	per gross,	16 00

Nos. 80 and 180, one-half gross in box. Nos. 280 and 380, one-quarter gross in box.

SURFACE CHEST HANDLES.



FULL SIZE CUT. No. 6.

JAPANNED.

No. 5, 3½ x 3 inches,	per dozen pairs,	$1 45
No. 6, 3⅝ x 3½ inches,	per dozen pairs,	2 20
No. 7, 4½ x 4¼ inches,	per dozen pairs,	3 65

Half dozen pairs in package.

FLUSH CHEST HANDLES

FULL SIZE CUT. No. 1

JAPANNED.

No. 1, 3 x 2½ inches,	per dozen pairs,	$2 80
No. 2, 4⅜ x 3½ inches,	per dozen pairs,	3 60
No. 3, 5½ x 4½ inches,	per dozen pairs,	7 50

Nos. 1 and 2, one-half dozen pairs in box. No. 3, one-sixth dozen pairs in package.

FLUSH TRAP-DOOR RINGS.

FULL SIZE CUT, No. 4.

JAPANNED.

No. 4, 4 x 3¼ inches, ... per dozen, $1 50

One dozen in box.

SURFACE CHEST HANDLES.

HALF SIZE CUT.

BERLIN BRONZED.

No. 50, 3½ x 3½ inches, packed with screws, . . per dozen pairs, $2 65

One dozen pairs in box.

FLUSH CHEST HANDLES.

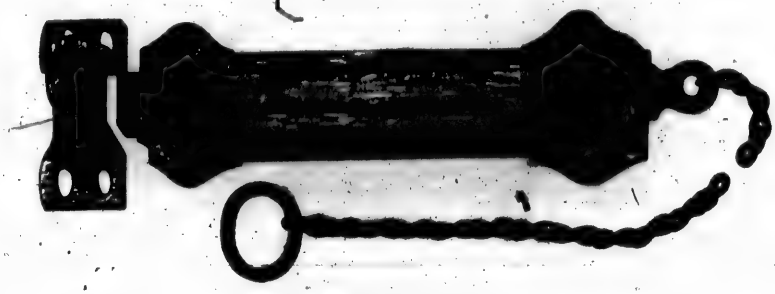
HALF SIZE CUT.

BERLIN BRONZED.

No. 60, 4 x 3½ inches, packed with screws, . . . per dozen pairs, $4 00

One dozen pairs in box.

CHAIN DOOR BOLTS.



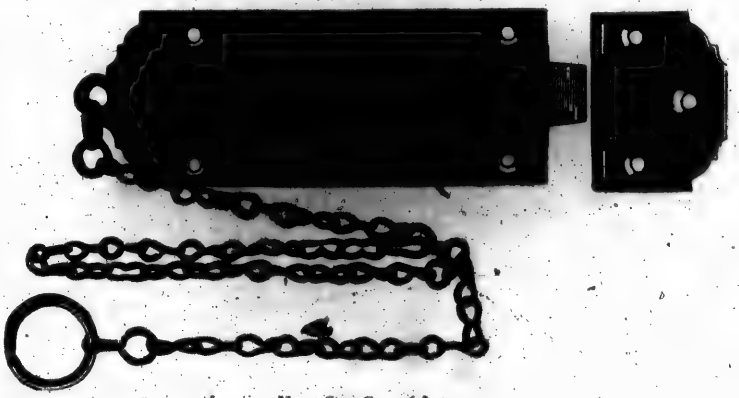
HALF SIZE CUT. 8-INCH.

JAPANNED.

WITH 30 INCHES JACK CHAIN.

Six-inch,	per dozen, $4 90
Eight-inch,	per dozen, 6 25
Ten-inch,	per dozen, 8 75

Half-dozen in box.



HALF SIZE CUT. 6-INCH.

BERLIN BRONZED.

WITH 30 INCHES JACK CHAIN.

Four-inch, packed with screws,	per dozen, $5 10
Six-inch, packed with screws,	per dozen, 5 80
Eight-inch, packed with screws,	per dozen, 6 50

Half-dozen in box.

FOOT BOLTS.

HALF SIZE CUT. 6 INCH.

JAPANNED.

Six-inch,	per dozen, $5 88
Eight-inch,	per dozen, 6 85

Half dozen in box.

HALF SIZE CUT. 8-INCH.

BERLIN BRONZED.

Six-inch, packed with screws,	per dozen, $5 40
Eight-inch, packed with screws,	per dozen, 6 10

Half dozen in box.

CUPBOARD CATCHES.

Two-Thirds Size Cut.

BERLIN BRONZED CASE, PORCELAIN KNOB.

No. 50, 3⅛ x 1½ inches, packed with screws, . . . per dozen, $1 60

One dozen in box.

SQUARE CASED BOLTS.

Two-Thirds Size Cut.

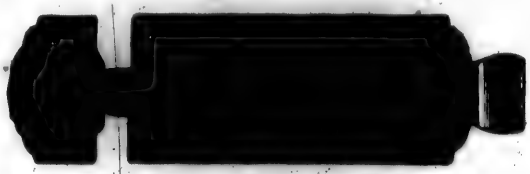
BERLIN BRONZED CASE, PORCELAIN KNOB.

THREE-INCH BOLT.

No. 22, 3⅞ x 1⅛ inches, packed with screws, . . . per dozen, $2 80

One dozen in box.

SQUARE BOLTS.



Two-Thirds Size Cut. No. 14.

BERLIN BRONZED.

Packed with screws.

No. 14, 3-inch bolt, 4⅛ x 1¾ inch case,	per dozen,	$2 20
No. 16, 4-inch bolt, 5¼ x 1¾-inch case,	per dozen,	2 60

Half dozen in box.

BARREL BOLTS.

Two-Thirds Size Cut. No. 70.

MALLEABLE IRON BOLT. BRASS KNOB.

BERLIN BRONZED.

Packed with screws.

No. 70, 4⅛-inch bolt, 5⅛ x 1½-inch case,	per dozen,	$2 33
No. 80, 4¼-inch bolt, 5⅞ x 1¾-inch case,	per dozen,	2 66

One dozen in box.

Style of Nos. 60 to 75.

SHELF BRACKETS.

JAPANNED.

No. 60, 5 x 6 inches,	per pair,	$0 20
Six pairs in package.		
No. 65, 6 x 7½ inches,	per pair,	25
Six pairs in package.		
No. 70, 7 x 8¾ inches,	per pair,	30
Three pairs in package.		
No. 75, 8 x 9¾ inches,	per pair,	35
Three pairs in package.		

Style of Nos. 80 to 86.

JAPANNED.

No. 80, 3 x 4 inches,	per pair,	$0 05
Six pairs in package.		
No. 81, 4½ x 6 inches,	per pair,	12½
Four pairs in package.		
No. 82, 6 x 8 inches,	per pair,	17
Three pairs in package.		
No. 83, 8 x 10 inches,	per pair,	25
Three pairs in package.		
No. 84, 9⅝ x 12 inches,	per pair,	33
Three pairs in package.		
No. 85, 11¾ x 14 inches,	per pair,	54
Three pairs in package.		
No. 86, 15 x 20 inches,	per pair,	75
Three pairs in package.		

STYLE OF NOS. 20 TO 25.

SHELF BRACKETS.

BERLIN BRONZED.

Packed with screws.

No. 20, 4 x 6 inches,	per pair,	$0 12
No. 21, 5 x 7 inches,	per pair,	17
No. 22, 6 x 8 inches,	per pair,	19
No. 23, 7 x 9 inches,	per pair,	25
No. 24, 8 x 10 inches,	per pair,	33
No. 25, 10 x 13 inches,	per pair,	40

Three pairs in package.

STYLE OF NOS. 14 TO 35.

JAPANNED.

No. 14, 4 x 5 inches,	per pair,	$0 15
No. 15, 5 x 7 inches,	per pair,	22
No. 16, 6 x 7¾ inches,	per pair,	35

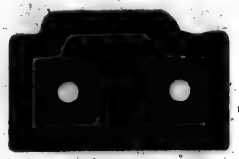
BERLIN BRONZED.

Packed with screws.

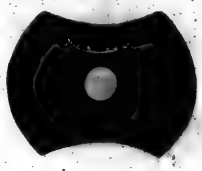
No. 33, 4 x 5 inches,	per pair,	$0 24
No. 34, 5 x 7 inches,	per pair,	30
No. 35, 6 x 7¾ inches,	per pair,	45

Six pairs in package.

SASH LIFTS.



FULL SIZE CUT. Nos. 42 and 142.
For two screws.



FULL SIZE CUT. No. 143.
For one screw, with two drive points.

BERLIN BRONZED.

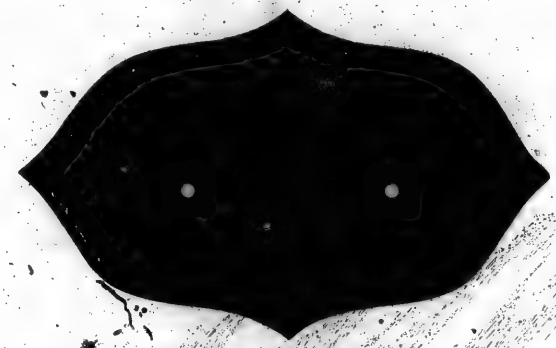
No. 42, packed with screws, ... per gross, $3 50

NICKEL PLATED.

No. 142, packed with screws, ... per gross. 10 00
No. 143, packed with screws, ... per gross, 9 00

Half gross in box.

FLUSH SASH LIFTS.



FULL SIZE CUT. No. 41.
For two screws.

BERLIN BRONZED.

No. 41, packed with screws, ... per gross, $7 00

One-sixth gross in box.

WINDOW PULLS.

FULL SIZE CUT. No. 1.
For four screws.

FULL SIZE CUT. No. 2.
For six screws.

JAPANNED.

No. 1, 4⅝ inches long,	per gross, $3 50
No. 2, 6 inches long,	per gross, 4 50

One-quarter gross in box.

SHUTTER LIFTS.

FULL SIZE CUT. No. 1.
Surface. For three screws.

FULL SIZE CUT. No. 2.
Flush. For four screws.

JAPANNED.

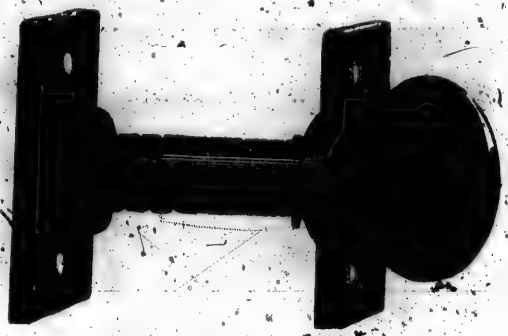
No. 1, ... per gross, $1 .75

Half-gross in box.

No. 2, ... per gross, $2 .75

Quarter-gross in box.

SHUTTER SCREWS.



FULL SIZE CUT. 2-INCH.

HEAVY SQUARE THREAD.

JAPANNED.

2-inch,	per gross, $5 80
2½-inch,	per gross, 6 00
3-inch,	per gross, 7 20

One-sixth gross in box.

STUBS AND PLATES.

TWO-THIRDS SIZE CUTS.

JAPANNED.

No. 1, Square, 2⅛ x ⅞ inches,	per gross, $2 40
No. 2, Round, 2½ x 1 inches,	per gross, 3 75

One-half gross in package.

SECTIONAL SASH WEIGHTS.

MADE IN FOUR SIZES, VIZ:

DIAMETER.	LENGTH.	WEIGHT EACH.
1 ½ inches	¾ inch	6 ounces
1 ½ inches	1¾ inches	14 ounces
1¾ inches	¾ inch	7 ounces
1¾ inches	1¾ inches	15 ounces

Packed in cases of 200 lbs., assorted lengths, equal numbers of each, and uniform diameters. . . . . per pound, $0 05

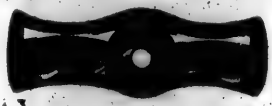
SOLID SASH WEIGHTS.

Sizes, 6, 8, 10, 12, 15, 18, and 22 lbs.

1¾-inch diameter, ... per lb.. $0 04

Sectional Sash Weights can be used with above to make up any weight required.

DOOR BUTTONS.



FULL SIZE CUT. 1¾ INCH.

JAPANNED.

Inch,	1½	1¾	2	2¼	2½
Per gross,	$1 00	$1 20	$1 50	$2 20	$3 00

One gross in box.

DOOR BUTTONS ON PLATES.

FULL SIZE CUT. 2-INCH.

JAPANNED.

Inch,	1¾	2	2¼	2½
Per gross,	$4 20	$4 75	$6 30	$7 20

Half gross in box.

HALF SIZE CUT.

BERLIN BRONZED.

2-inch, packed with screws, ... per gross, $10 20

Half-gross in box.

AXLE PULLEYS.

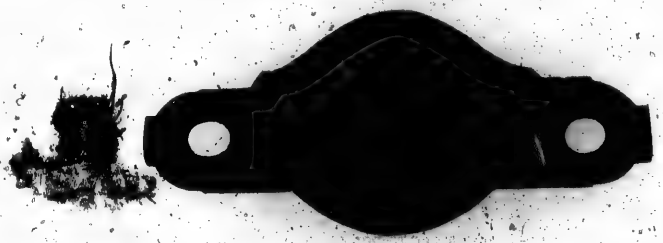
FULL SIZE CUT. 2-INCH WHEEL.

WROUGHT IRON AXLE.

1¾-inch wheel,	per dozen, $0 40
2-inch wheel,	per dozen, 0 50
2¼-inch wheel,	per dozen, 0 70

Put up in bulk, or packed one dozen in a package.

SIDE PULLEYS.



FULL SIZE CUT. 1¾-INCH WHEEL.

JAPANNED.

1¾-inch wheel,	per dozen, $1 20
2-inch wheel,	per dozen, 1 30
2¼-inch wheel,	per dozen, 2 10
2½-inch wheel,	per dozen, 2 40

One dozen in box.

Full Size Cut. 1¾-Inch.

SCREW PULLEYS.

JAPANNED.

Inch Wheel	1½	1¾	2	2¼	2½
Per Dozen	$0 68	$0 82	$1 10	$1 40	$1 60

Two dozen in box.

Full Size Cut. 2½-Inch. Encased.

ENCASED SCREW PULLYES.

JAPANNED.

2-inch wheel, . . . per dozen, $1 75
2½-inch wheel, . . . per dozen, 2 25

One dozen in box.

PARKER'S BLIND HINGES.

SELF-LOCKING.

UPPER HINGE.

LOWER HINGE.

FULL SIZE CUTS. 3-INCH.

A set contains two top hinges, two bottom hinges, and two sets of fastenings.
Each set papered separately.

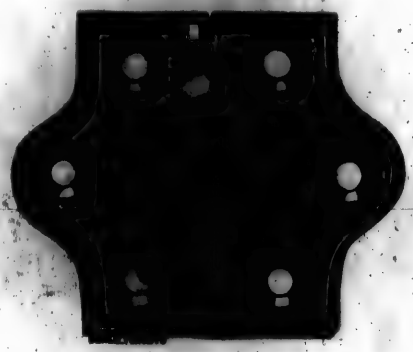
3-inch, to throw blind 1 inch from casing,	per dozen sets,	$2 20
4-inch, to throw blind 2 inches from casing,	per dozen sets,	3 10
5-inch, to throw blind 3 inches from casing,	per dozen sets,	3 67
5½ inch, to throw blind 3½ inches from casing,	per dozen sets,	4 40
6 inch, to throw blind 4 inches from casing,	per dozen sets,	4 60
6½ inch, to throw blind 4½ inches from casing,	per dozen sets,	5 25

PACKED AS FOLLOWS:

3-inch,	½-dozen sets in paper package,	10 dozen sets in case
4-inch,	½-dozen sets in paper package,	10 dozen sets in case
5-inch,	½-dozen sets in paper package,	6 dozen sets in case
5½-inch,	½-dozen sets in paper package,	6 dozen sets in case
6-inch,	½-dozen sets in paper package,	4 dozen sets in case
6½-inch,	½-dozen sets in paper package,	4 dozen sets in case

CLARK'S BLIND HINGES.

IMPROVED SELF-LOCKING.



FULL SIZE CUT. No. 1.

Each set is papered separately, and contains four hinges, as shown in cut, (two right and two left), and two sets of inside fastenings.

No. 1, for wood, throws blind 1¼ inches from casing, . . . per dozen sets, $3 50
No. 3, for brick, throws blind 3¼ inches from casing, . . . per dozen sets, 5 25

PACKED AS FOLLOWS:

No. 1, ½ dozen sets in package, 10 dozen sets in case.
No. 3, ½ dozen sets in package, 6 dozen sets in case.

GARRETSON'S BLIND HINGES.

SELF-LOCKING.

FULL SIZE CUT. No. 2.

COMPLETE WITH FASTENINGS.

A set contains four hinges (2 right and two left) and two sets of fastenings.

No. 2, for wood, ... per dozen sets, $3 50
No. 4, for brick, ... per dozen sets, 5 25

No. 2 throws Blind 1¼ inches from casing.
No. 4, 3¼ inches.

PACKED AS FOLLOWS:

No. 2, ½ dozen sets in package, 10 dozen sets in case.
No. 4, ½ dozen sets in package, 6 dozen sets in case.

LEVER DOOR BELLS.

FULL SIZE CUT.
Nos. 31, 36 and 60. 3½-inch diameter. Figured.

BRASS BELLS, POLISHED.

		BELLS ONLY.
No. 30, 3½ inches in diameter, plain,	per dozen,	$12 00
No. 40, 4 inches in diameter, plain,	per dozen,	14 00
No. 50, 5 inches in diameter, plain,	per dozen,	17 20
No. 31, 3½ inches in diameter, figured,	per dozen,	12 00
No. 41, 4 inches in diameter, figured,	per dozen,	14 00
No. 51, 5 inches in diameter, figured,	per dozen,	17 20

Packed with screws. One-twelfth dozen in box.

BRASS BELLS, SILVER PLATED.

No. 35, 3½ inches in diameter, plain,	per dozen,	$14 80
No. 45, 4 inches in diameter, plain,	per dozen,	16 80
No. 55, 5 inches in diameter, plain,	per dozen,	20 80
No. 36, 3½ inches in diameter, figured,	per dozen,	14 80
No. 46, 4 inches in diameter, figured,	per dozen,	16 80
No. 56, 5 inches in diameter, figured,	per dozen,	20 80

Packed with screws. One-twelfth dozen in box.

IRON BELLS, BERLIN BRONZED.

No. 60, 3½ inches in diameter, figured,	per dozen,	8 00
No. 61, 4 inches in diameter, figured,	per dozen,	8 50
No. 62, 5 inches in diameter, figured,	per dozen,	10 00

Packed with screws. One-twelfth dozen in box.

☞See pages 63 and 64 for prices of levers.

DOOR BELL LEVERS.

FULL SIZE CUT. No. 130.

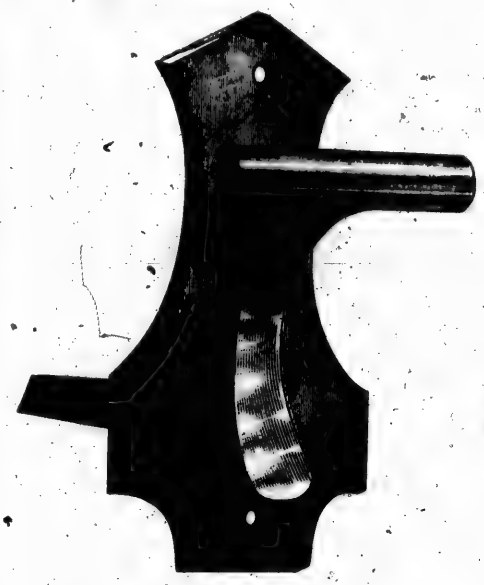
NICKEL PLATED.

No. 130, Plate 4¼ x 2¼ inches, ... per dozen, $18 00

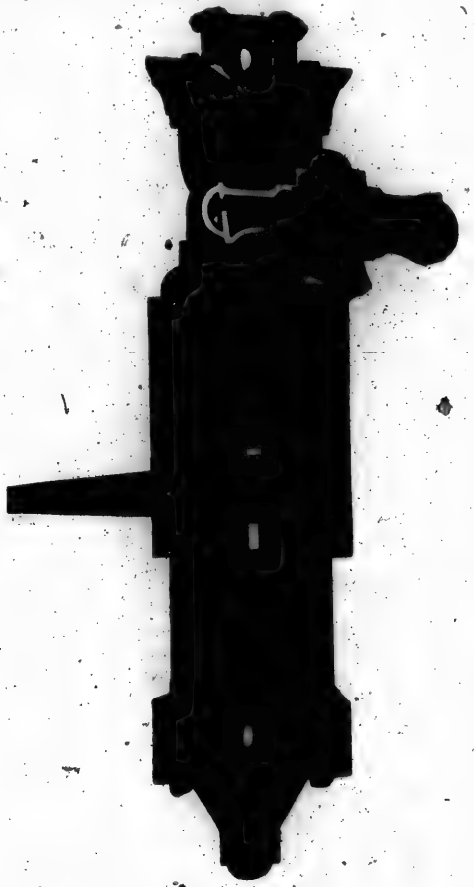
Packed complete with screws. One-sixth dozen in box.

☞See Price List of Bells, page 62.

DOOR BELL LEVERS.



FULL SIZE CUT. No. 140.



FULL SIZE CUT. Nos. 150, 151, 152.

NICKEL PLATED.

No. 140, Plate 3¾ x 1⅞ inches,	per dozen, $18 50
No. 150, Plate 5⅞ x 1⅞ inches,	per dozen, 19 00

POLISHED BRASS, LACQUERED, DARK GROUND.

No. 151, Plate 5⅞ x 1⅞ inches,	per dozen, $15 20

BERLIN BRONZED.

No. 152, Plate 5⅞ x 1⅞ inches,	per dozen, $ 4 50

Packed complete with screws. One-sixth dozen in box.

☞ See Price List of Bells, page 62.

CRANK DOOR BELLS.

HALF SIZE CUT. 3½-INCH.

COMPLETE AS PER CUT. PACKED WITH SCREWS.

BRASS BELLS, POLISHED.

Brass Cranks, Figured, Silver Plated.

Diameter	3½-in.	4-in.	5-in.
Each,	$1 75	$1 93	$2 18

BRASS BELLS, SILVER PLATED.

Brass Cranks, Figured, Silver Plated.

Diameter,	3½-in.	4-in.	5-in.
Each,	$2 25	$2 55	$2 75

One in a box.

HALF SIZE CUT. Nos. 1 and 11.

DOOR KNOCKERS.

JAPANNED.

No. 1, ... per dozen, $3 75

HAND BRONZED.

No. 11, ... per dozen, $4 37

Half-dozen in box.

SPIRAL DOOR SPRINGS.

Can be regulated to close any size or weight of door.

STEEL WIRE SPRING, 11 INCHES LONG.

COPPERED.

With wrought iron wrench for adjusting.

Per dozen, $3 50

Half dozen in package.

LETTER BOX PLATES.

Two-Thirds Size Cut. Nos. 1 and 11.

BERLIN BRONZED.

No. 1, packed with screws, per dozen, $2 70.

NICKEL PLATED.

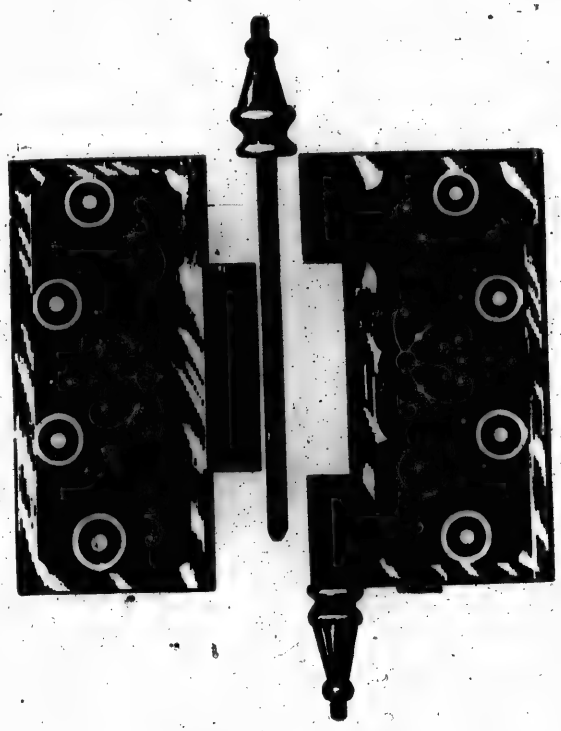
No. 11, packed with screws, per dozen, $7 00

One dozen in box.

FIGURED LOOSE PIN BUTTS.

(CAST.)

STYLE A.



FULL SIZE CUT. 3 x 3 INCH.

STEEPLE TIPS, DRILLED.

For either right or left hand doors.

Dimensions given in table opposite are (1) the length and (2) the width when open.

Sizes 2	x 2	to 2½	x 2½	have	4 screw holes.
Sizes 2½	x 3	to 3½	x 3½	have	6 screw holes.
Sizes 4	x 3½	to 5	x 5	have	8 screw holes.
Sizes 5½	x 5½	to 6	x 6	have	10 screw holes.

See Price List, next page.

PRICE LIST

—OF—

LOOSE PIN BUTTS.

STYLE A.

PER DOZEN PAIRS.

Size.	Plain.	Japanned.	Japanned. Nickel Tip.	Berlin Bronzed.	Berlin Bronzed. Nickel Tip	Berlin Bronzed, Polished.	Berlin Br'd Polished. Nickel Tip	All Nickel Plated.
2 x 2	$1 90	$2 50	$5 60	.....	.....	.....	.....	.....
2 x 2½	1 10	2 65	5 80	.....	.....	.....	.....	.....
2½ x 2	1 20	2 80	6 00	.....	.....	.....	.....	.....
2½ x 2½	1 35	3 00	6 20	.....	.....	.....	.....	.....
2½ x 3	1 50	3 15	6 30	.....	.....	.....	.....	.....
3 x 2½	1 60	3 30	6 40	.....	.....	.....	.....	.....
3 x 3	1 75	3 50	6 50	$4 05	$7 50	$6 75	$10 00	$11 00
3 x 3½	1 95	3 65	7 00	4 20	8 00	7 20	10 20	11 20
3½ x 3	2 15	3 80	7 50	4 40	8 65	7 80	10 62	11 76
3½ x 3½	2 35	4 00	8 00	4 60	9 20	8 25	11 25	12 40
4 x 3½	2 70	4 70	8 80	5 40	10 15	9 15	12 50	13 75
4 x 4	2 90	5 00	9 20	5 75	10 60	9 55	13 75	15 15
4½ x 4½	4 00	6 00	10 00	6 90	11 50	10 35	15 00	16 50
5 x 5	5 50	7 50	12 50	8 65	14 40	13 00	17 50	19 25
5½ x 5½	6 50	9 00	14 00	10 35	16 10	14 50	20 00	22 00
6 x 6	7 60	11 00	16 50	12 65	17 40	16 25	30 00	33 00

Berlin Bronzed and all Nickel, packed with screws.

Sizes 2 x 2 to 3 x 2½, inclusive, 1 dozen pairs in box.
Sizes 3 x 3 to 4½ x 4½, inclusive, ½-dozen pairs in box.
Sizes 5 x 5 to 6 x 6 , inclusive, ¼-dozen pairs in box.

Sizes 2 x 2 to 3½ x 3½, inclusive, 12 dozen in case.
Sizes 4 x 3½ to 4½ x 4½, inclusive, 10 dozen in case.
Sizes 5 x 5 to 6 x 6 , inclusive, 6 dozen in case.

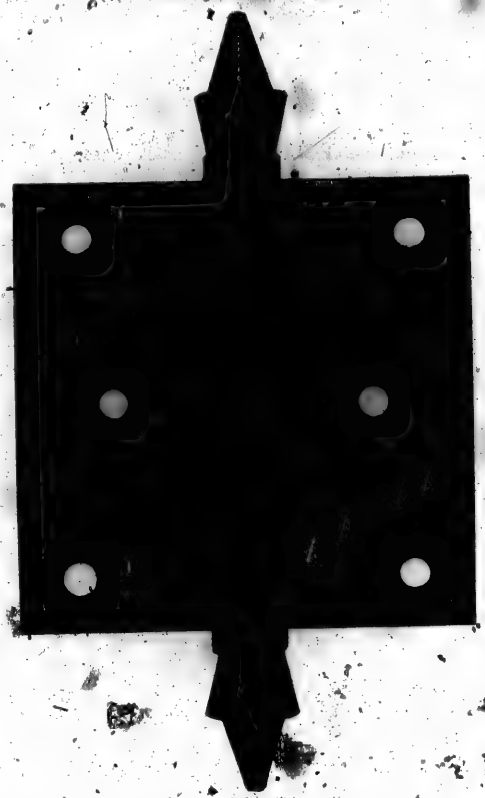
FIGURED LOOSE PIN BUTTS.

(CAST.)

STYLE "B."

(Original Design, Registered.)

For either right or left hand doors.



FULL SIZE CUT. 3 x 3.

Number of screw holes same as in Style A.

IRON BUTTS, PER DOZEN PAIRS:

Inches,	3 x 3	3½ x 3½	4 x 4	5 x 5	6 x 6
Plain,	$ 1 75	$ 2 35	$ 2 90	$ 5 50	$ 7 60
Japanned,	3 50	4 00	5 00	7 50	11 00
Japanned with Nickel Tips,	6 50	8 00	9 20	12 50	16 50
Berlin Bronzed, Polished,	6 75	8 25	9 55	13 00	16 75
Berlin Bronzed, Polished, Nickel Tips,	10 00	11 25	13 75	17 50	30 00
All Nickel Plated,	11 00	12 40	15 15	19 25	33 00

Berlin Bronzed and all Nickel Plated, packed with screws. 3 x 3, and 3½ x 3½, half-dozen in box; twelve dozen in case. 4 x 4, half-dozen in box; ten dozen in case. 5 x 5, and 6 x 6, quarter-dozen in box; six dozen in case.

POLISHED BRASS, LACQUERED.

Packed with brass screws.

Inches,	3 x 3	3½ x 3½	4 x 4	5 x 5	6 x 6
Per pair,	$3 80	$4 40	$5 40	$7 60	$10 40

One pair in package.

BARN DOOR HANGERS.

ROUND GROOVE.

For flat-faced iron rail.

JAPANNED.

3-inch, 3-inch wheel, 10-inch plate,	per pair,	$0 50
4-inch, 4-inch wheel, 11-inch plate,	per pair,	0 75
5-inch, 5-inch wheel, 12½-inch plate,	per pair,	1 00
6-inch, 6-inch wheel, 14-inch plate,	per pair,	1 15
8-inch, 8-inch wheel, 15-inch plate,	per pair,	1 80

Twelve pairs in case.

BARN DOOR RAIL.

For round-groove hangers.

In two feet lengths, ... per foot, $0 0[illegible]

Two hundred feet in case.

BARN DOOR HANGERS.

"CLIMAX" ANTI-FRICTION.

For square iron rail, extra heavy.

JAPANNED.

3½-inch, 3½-inch wheel, 11½-inch plate,	per pair, $1 00
4-inch, 4-inch wheel, 13½-inch plate,	per pair, 1 25
5-inch, 5-inch wheel, 16½-inch plate,	per pair, 1 60

Twelve pairs in case.

CLIMAX BARN DOOR RAIL.

In two feet lengths, per foot, $0 05

Two hundred feet in case.

BARN DOOR HANGERS.

DOUBLE PLATE.

Extra heavy. For square iron rail.

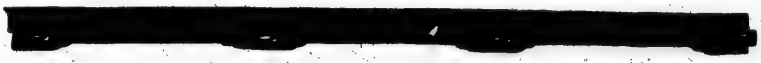
JAPANNED.

4-inch, 4-inch wheel, 13½-inch plate, ...	per pair, $1 15
5-inch, 5-inch wheel, 16-inch plate, ...	per pair, 1 50
6-inch, 6-inch wheel, 17½-inch plate, ...	per pair, 1 90

Twelve pairs in case.

SQUARE BARN DOOR RAIL.

For double plate hangers.



In two feet lengths, ... per foot, $0 05

Two hundred feet in case.

BARN DOOR HANGERS.

"EXCELSIOR."

For wood track.

HEAVY, JAPANNED.

Cannot be thrown from track.

4-inch, 4-inch wheel, 12½-inch plate,	per pair, $1 00
5-inch, 5-inch wheel, 13½-inch plate,	per pair, $1 25

Twelve pairs in case.

☞ Make track of hardwood plank 2 inches thick, 2¾ inches wi[illegible] 1 inch groove[illegible] out for small friction wheel; or two strips 1 inch thick each, and one 1¾ inches wide, the other 2¾ inches.

BARN DOOR ROLLERS.

ROUND GROOVE WHEELS.

JAPANNED.

Inch Wheel,	[illegible]	[illegible]	8	8	10
Per pair,	$0 [illegible]	$0 [illegible]	$1 00	$1 45	$2 15

4 and 5-inch, 20 pairs in case; 6, 8 and 10-inch, [illegible] pairs in case.

SLIDING DOOR SHEAVES.

STYLE A.

JAPANNED CASE, POLISHED WHEEL, WROUGHT IRON AXLE.

4-inch wheel,	per set of four, $1 50

One set in package.

HALF SIZE CUT. 3-INCH.

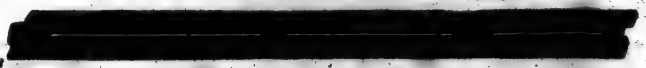
STYLE B.

JAPANNED CASE, TURNED WHEEL, [illegible]S AXLE.

3-inch wheel,	per set of four, $1 37
4-inch wheel,	per set of four, 1 50
5-inch wheel,	per set of four, 2 00

One set in package.

SLIDING DOOR RAIL.



Plain,	per foot, $0 05
Painted drab,	per foot, 06

Two feet in a length. One hundred feet in case.

DAVIS PARLOR DOOR HANGERS.

FOR SLIDING DOORS.

Patented Feb. 6, 1894.

DOOR HANGS FROM TOP, DISPENSING WITH TRACK ON FLOOR.

THE DAVIS PARLOR DOOR HANGER embodies all the important features of other Parlor Door Hangers, and has the following additional advantages :

1. It is *entirely* concealed from view.

2. It can be put up in one-fourth the time, and consequently at one-fourth the cost of any other make.

3. No plates are required at edge of door, and no cutting of door is necessary in fitting it.

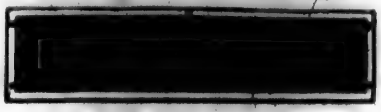
It is fastened to top of door by long square head coach screws in a most substantial manner, and will carry 1,000 lbs. without strain ; is absolutely noiseless, requires no oiling, and cannot get off the track ; is easily adjusted by the turning of a screw to raise or lower door ; is self-adjusting to any unevenness of track, and bears equally on both rails of track under all circumstances.

Packed, one set in wooden box, ... per set, $6 00

A set consists of four hangers with screws for raising and lowering, two pocket plates, two floor guides, one wrench, two double striking plates, twenty-eight feet hardwood track, two stop plates, eight coach screws.

One set will hang two doors. For single doors, use half a set.

STAIR PLATES.



No. 1, 22 x 6½ inches,	each, $0 60
No. 2, 27 x 6½ inches,	each, 0 88

STORE STOOLS.

WITH SWIVEL.

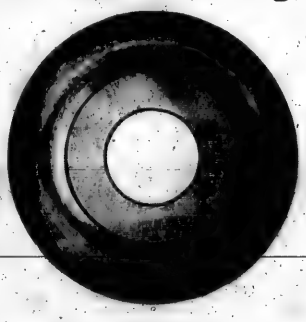
Twenty-one inches high. Diameter of top, 6 inches; Diameter of base, 8½ inches.

PLAIN.

Each, ... $1 50

PAINTED AND STRIPED.

Each, ... $2 00



BUILDING WASHERS.

JAPANNED.

Any size, ... per lb., $0 06

GATE LATCHES.

HALF SIZE CUT. No. 1.

SPIRAL SPRING ACTION

For gates swinging both ways.

JAPANNED.

No. 1, . . . per dozen, $1 80

Half-dozen in box.

No. 2, . . . per dozen, $2 20

One dozen in package.

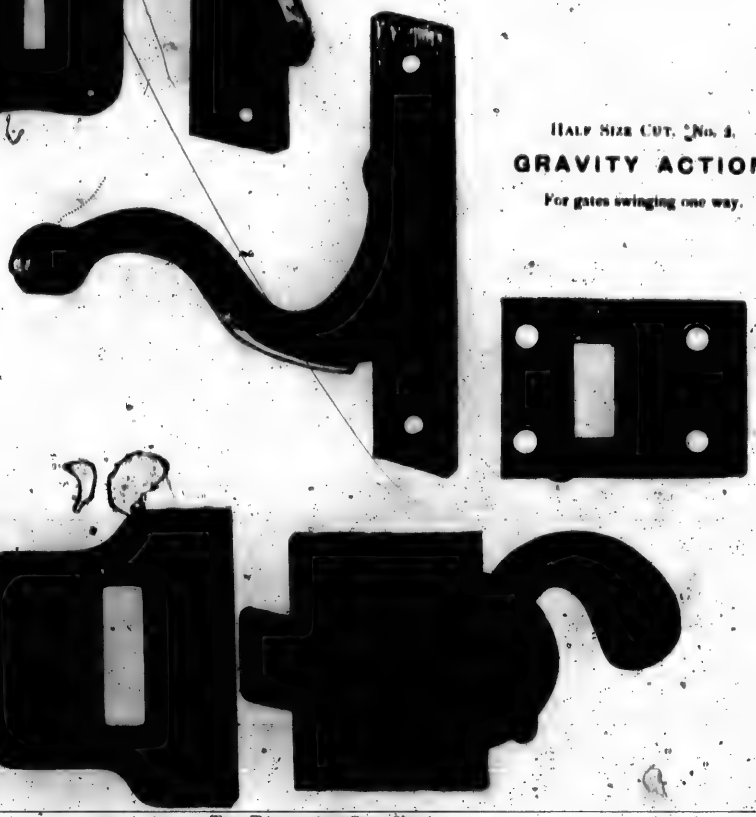
No. 4, . . . per dozen, $2 00

One dozen in box.

HALF SIZE CUT. No. 4.

GRAVITY ACTION.

For gates swinging one way.

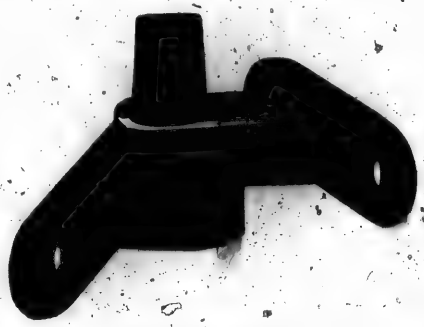


TWO-THIRDS SIZE CUT. No. 3.

GRAVITY ACTION.

For gates swinging one way.

PARKER'S GATE HINGES.



UPPER HINGE.

LOWER HINGE.

FULL SIZE CUTS. No. 1.

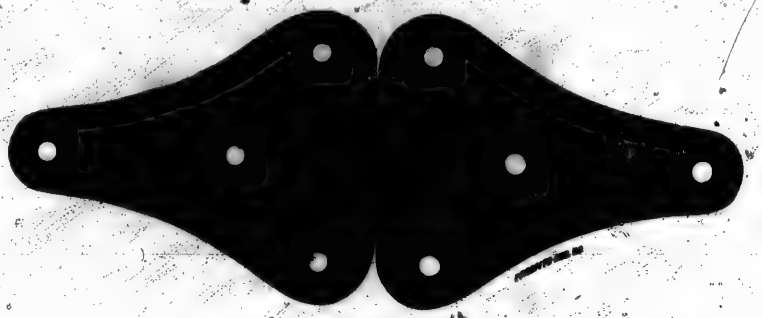
SELF-SHUTTING. TO SWING BOTH WAYS.

Suitable for either right or left hand gates.

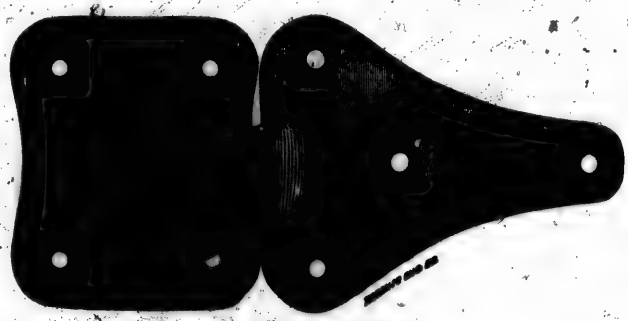
No. 1, ... per dozen sets, $2 50.

Half-dozen sets in box.

NEW ENGLAND GATE HINGES.



UPPER HINGE.



LOWER HINGE.

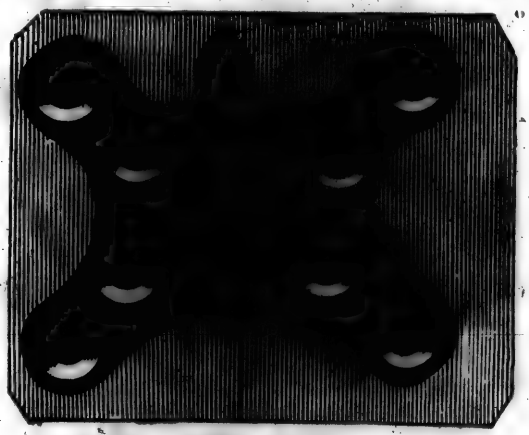
HALF SIZE CUTS. No. 5.

SELF SHUTTING. TO SWING ONE WAY.

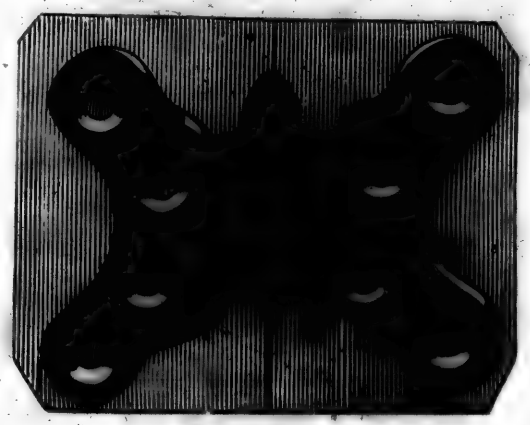
No. 5, ... per dozen sets, $6 25

Half-dozen sets in box. Half right and half left hand.

SURFACE GATE HINGES.



UPPER HINGE.



LOWER HINGE.

TWO-THIRDS SIZE CUTS.

SELF-SHUTTING. TO SWING ONE WAY.

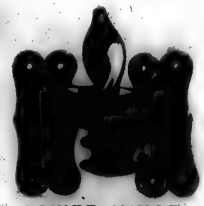
JAPANNED.

No. 3, ... per dozen sets, $3 [illegible]

Half-dozen sets in box. Half right and half left hand.

AUGER GATE HINGES.

UPPER HINGE.



LOWER HINGE.

QUARTER SIZE CUTS.

SELF-SHUTTING. TO SWING ONE WAY. EXTRA HEAVY.

JAPANNED.

No. 6, per dozen sets, $6 00

Half dozen sets in box. Half right and half left hand.

NEW YORK GATE HINGES.

UPPER HINGE.

LOWER HINGE.

HALF SIZE CUTS.

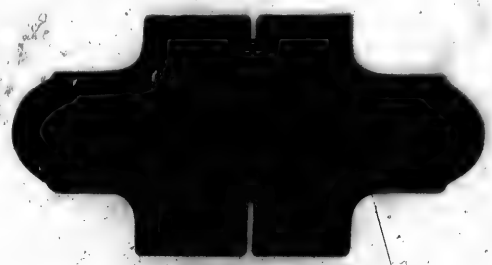
SELF-SHUTTING. TO SWING BOTH WAYS.

Either right or left hand.

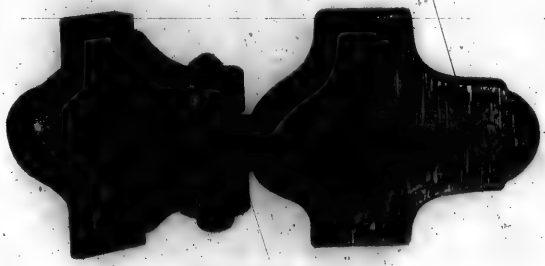
No. 9, per dozen sets, $3 00

Half-dozen sets in box.

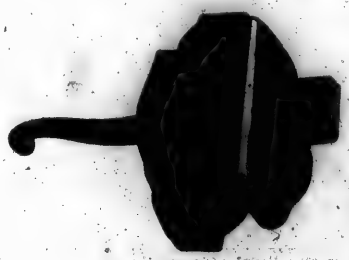
CLARK'S PATENT GATE FIXTURES.



UPPER HINGE.



LOWER HINGE.



LATCH.

CATCH.

HALF SIZE CUTS.

SELF-SHUTTING. TO SWING ONE WAY.

Reversible for right or left hand gates.

No. 8, fixtures complete,	per dozen sets, $6 00
No. 8, hinges only,	per dozen sets, 4 00
No. 8, latches only, with catches,	per dozen, 2 00

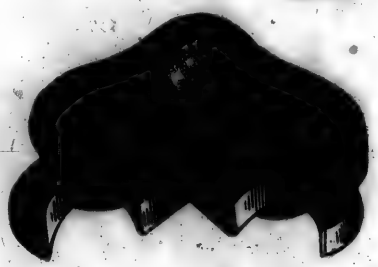
Hinges, half-dozen sets in package. Latches, half-dozen in box.

LEEB'S PATENT GATE FIXTURES.

ON GATE.

ON POST.

UPPER HINGE, MALLEABLE IRON.



ON POST.

ON GATE.

LOWER HINGE, CAST IRON.

CATCH.

LATCH.

HALF SIZE CUTS.

SELF-SHUTTING. TO SWING BOTH WAYS.

JAPANNED.

No. 7, fixtures complete,	One-third dozen sets in box.	per dozen sets, $9 00
No. 7, hinges only,	Half-dozen sets in box.	per dozen sets, 6 00
No. 7, latches only, with catches,	One dozen in box.	per dozen, 3 00

Full Size Cut. 2½-inch.

CLOTHES LINE PULLEYS.

JAPANNED.

2½-inch wheel,	per dozen, $1 00
3-inch wheel,	per dozen, 1 80

One dozen in box.

CLOTHES LINE HOOKS.

No. 3.

No. 2.

Full Size Cuts.

JAPANNED.

No. 3, for two screws,	per dozen, [illegible]
No. 2, for four screws,	per dozen, [illegible] 45

One dozen in box.

REVOLVING CLOTHES REEL IRONS.

JAPANNED.

QUARTER-SIZE CUT.

No. 2, Round Base, 5 inches diameter, ... per dozen, $15 00

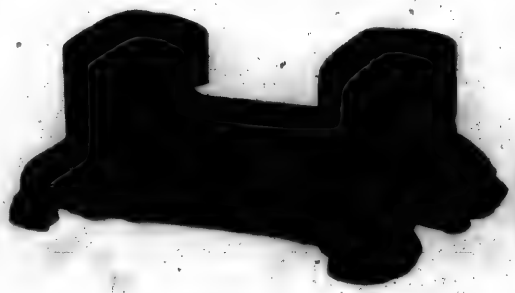
QUARTER-SIZE CUT.

No. 2½, Square Base, 5 x 5 inches, ... per dozen, $15 00

FOOT SCRAPERS.

HALF SIZE CUT. No. 2.

QUARTER SIZE CUT. No. 3.



QUARTER SIZE CUT. No. 5.
With Brushes.

QUARTER SIZE CUT. No. 4.

No. 2, Japanned, half-dozen in box	per dozen, $ 1 90
No. 3, Japanned, quarter dozen in package	per dozen, 8 00
No. 4, Green and Gold, one in package.	per dozen, 22 50
No. 5, Fancy Bronzed, one in package	per dozen, 30 00

BOOT JACKS.

ONE-THIRD SIZE CUT. Nos. 2 and 12.

No. 2, Japanned . . . . . per dozen, $2 75
No. 12, Fancy Bronzed . . . . . per dozen, 3 25

Half dozen in package.

ONE-THIRD SIZE CUT. Nos. 3 and 13.

BEETLE PATTERN.

No. 3, Japanned, ... per dozen, $3 25
No. 13, Fancy Bronzed . . . . . per dozen, 3 75

Half-dozen in package.

ONE-THIRD SIZE CUT. No. 10.

No. 10, Berlin Bronzed . . . . . per dozen, $3 00

Half-dozen in package.

SAD IRONS.

(Original Design, Registered.)

We supply all sizes from 6 to 10 lbs. each in above style, which has extra heavy point, giving extra pressure where most needed. This will be found a decided improvement over the old style in ease of working and general efficiency. For the present we supply the four and five-pound irons in old style ordinary point only.

Sizes, 4, 5, 6, 7, 8, 9 and 10 lbs. each.

Japanned top and handle, extra polished face,	per lb.,	$0 05
Gold Lacquered top and handle, extra polished face,	per lb.,	06
Gold Lacquered top and handle, Nickel Plated face,	per lb.,	08

Two hundred pounds in case. Assorted to order. Six hundred pounds in barrel.

POLISHING IRONS.

Same style as above, with rounded edges and points.

Japanned top, polished face,	per lb.,	$0 07

Mrs. Potts' Cold Handle Double Pointed

SMOOTHING AND POLISHING IRONS.

Three Irons, one Handle and stand constitute a set as represented in cut.

There are three sizes in each set.

No. 1 weighs four pounds, has one round end for polishing or glossing, and is very suitable for light work.

No. 2 weighs five pounds, and is for general use.

No. 3 weighs six pounds, and is suitable for table-cloths, sheets, etc.

FULL SETS.

No. 50, Nickel Plated,	per dozen sets,	$30 00
No. 55, Plain Polished,	per dozen sets,	24 00

Six sets in a case.

BROKEN SETS.

No. 50, Nickel Plated, Nos. 1, 2 or 3 with handles,	per dozen,	$12 00
No. 50, Nickel Plated, Nos. 1, 2 or 3 without handles,	per dozen,	9 00
No. 55, Plain Polished, Nos. 1, 2 or 3 with handles,	per dozen,	10 00
No. 55, Plain Polished, Nos. 1, 2 or 3 without handles,	per dozen,	7 00

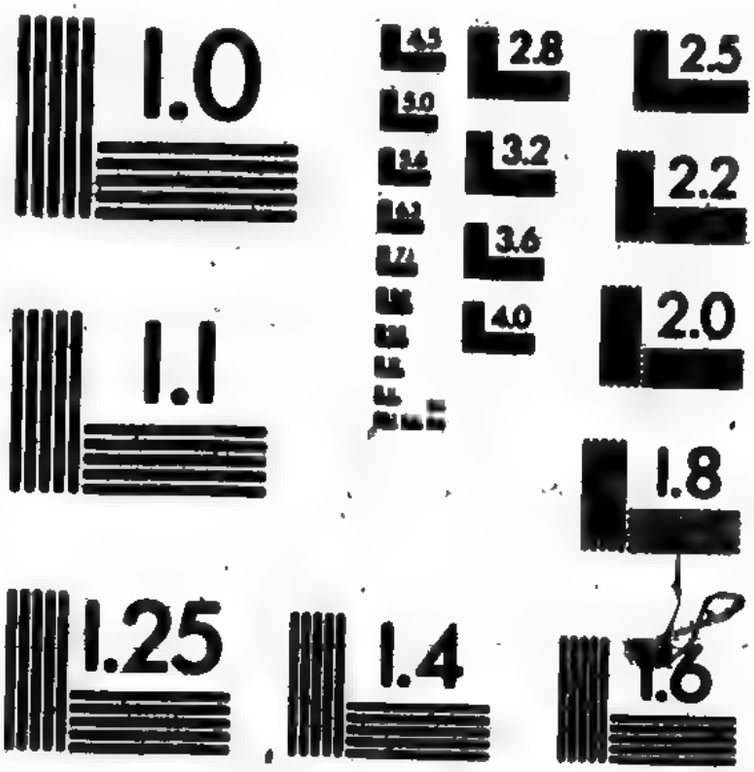
EXTRA HANDLES.

Per dozen, $4 00

T

MICROCOPY RESOLUTION TEST CHART

(ANSI and ISO TEST CHART No. 2)

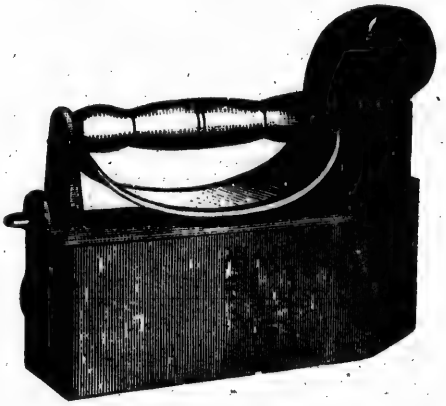


APPLIED IMAGE Inc
1653 East Main Street
Rochester, New York 14609 USA
(716) 482 - 0300 - Phone
(716) 288 - 5989 - Fax

SELF HEATING SAD IRONS.

CHARCOAL IRONS.

Nos. 3 and 4.



Quarter Size Cuts. Nos. 5 and 6. Tailors'.

POLISHED EDGES AND FACE. GREEN AND GOLD TOPS.

No 3, 7 x 3¾-inch face,	weight, 7½ lbs.,		per dozen, $10 00
No. 4, 6¼ x 4½-inch face,	weight, 8 lbs.,		per dozen, 10 00
No. 5, 10½ x 3 -inch face,	weight, 12 lbs.,		per dozen, 22 50
No. 6, 12 x 3½-inch face,	weight, 13½ lbs.,		per dozen, 27 00

Each Iron papered seperately.

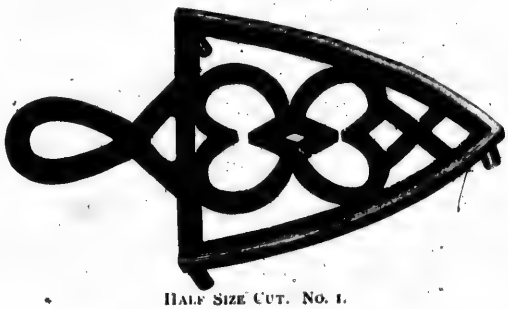
TAILORS' SMOOTHING IRONS.

EXTRA POLISHED FACE.

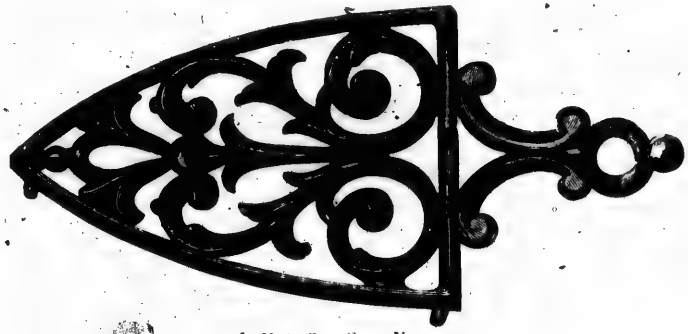
Sizes 12, 14, 16, 18, 20, 24, 26 and 30 lbs. each.

Per lb., ... $0 07

SAD IRON STANDS.



HALF SIZE CUT. No. 1.



HALF SIZE CUT. No. 2.

JAPANNED.

No. 1,	per dozen,	$0 80
No. 2,	per dozen,	1 10

One dozen in package.

FIRE TONGS.

HALF SIZE CUT.

JAPANNED.

Per dozen, $2 40

Half dozen in package.

COFFEE POT STANDS.

HALF SIZE CUT. Nos. 1 and 2.

HALF SIZE CUT. Nos. 3 and 4.

No. 1, Japanned,	per dozen, $1 10
No. 2, Coppered,	per dozen, 1 25

One dozen in package.

No. 3, Berlin Bronzed,	per dozen, $1 75
No. 4, Nickel Plated,	per dozen, 2 50

One dozen in box.

CAST IRON COAL SHOVELS.

7-inch Handle, 6 x 4-inch Blade.

No. 1, All Iron, Japanned, ... per dozen, $1 20

Half-dozen in package.

8-inch Handle, 7 x 4-inch Blade.

No. 2, Wood handle, Japanned blade, ... per dozen, $1 30

Half-dozen in package.

7-inch Handle, 7 x 5-inch Blade.

No. 3, All Iron, Japanned, ... per dozen, $1 50
No. 4, All Iron, Coppered, ... per dozen, 1 75

Half-dozen in package.

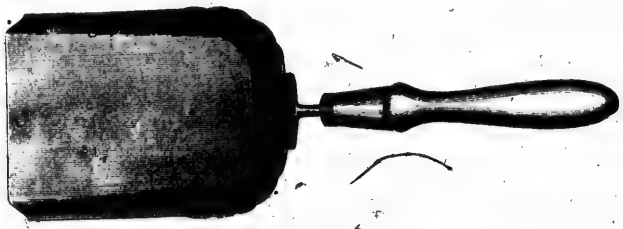
WROUGHT IRON COAL SHOVELS.

Nos. 5 and 7.

ALL IRON, JAPANNED.

No. 5, 11½-inch handle, 6½ x 4-inch blade, ... per dozen, $1 50
No. 7, 13 -inch handle, 8 x 5½-inch blade, ... per dozen, 2 50

Half-dozen in package.



No. 6.

POLISHED HARDWOOD HANDLE, JAPANNED BLADE.

Brass Ferrule on Handle. Malleable Joint, extra strong.

No. 6, 8-inch handle, 7 x 5½-inch blade . . . . per dozen, $2 00

Half-dozen in package.

FIRE IRON STANDS.

No. 1.

No. 2.

No. 3.

No. 4.

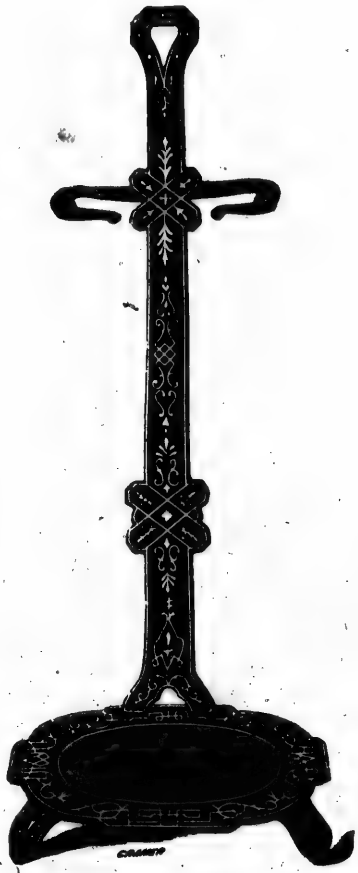
No. 5.

FANCY BRONZED.

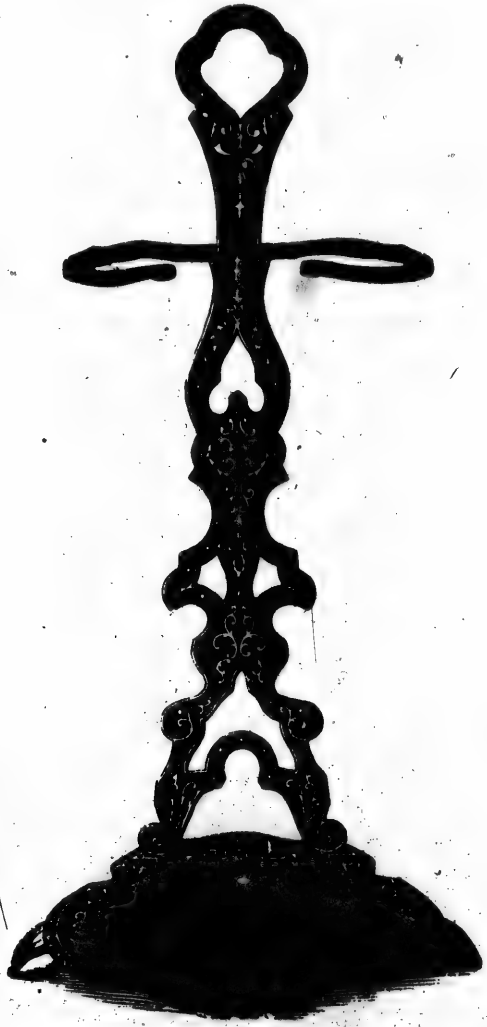
No. 1, height 24 inches,	each,	$1 60
No. 2, height 27 inches,	each,	1 70
No. 3, height 27 inches,	each,	2 00
No. 4, height 27 inches,	each,	2 00
No. 5, height 24 inches,	each,	2 00

Packed singly in paper package.

FIRE IRON STANDS.



QUARTER SIZE CUT. No 28.

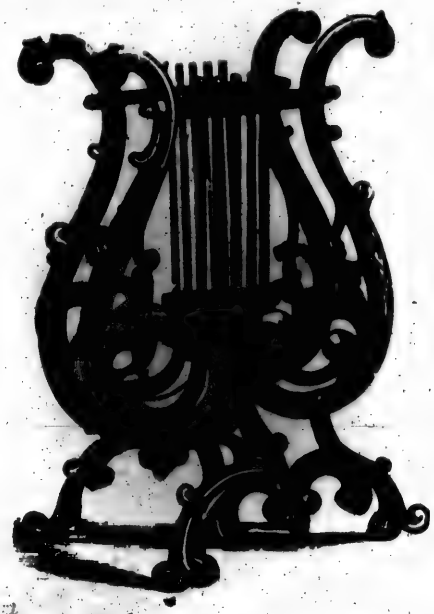


QUARTER SIZE CUT. No. 32.

BERLIN BRONZED.

No. 28, height 22 inches,	each, $1 50
No. 32, height 28 inches,	each, 2 25

One in a package.



BLOWER STANDS.

No. 1.

Height 12¾ inches, width at base 8 inches, at centre 9 inches, at top 5¾ inches.

FINISHED IN GREEN AND GOLD BRONZE.

Per dozen, ... $17 00

One-twelfth dozen in package.

No. 2.

Height 13 inches, width at base 8 inches, at centre 8¾ inches, at top 5 inches.

BERLIN BRONZED.

Per dozen, ... $15 50

One-twelfth dozen in package.

UMBRELLA STANDS.

No. 1.

No. 2.

No. 3.

FANCY BRONZED.

No. 1, height 24 inches, ... each, $3 00

Shipped singly, set up.

No. 2, height 28 inches, ... each, 5 00

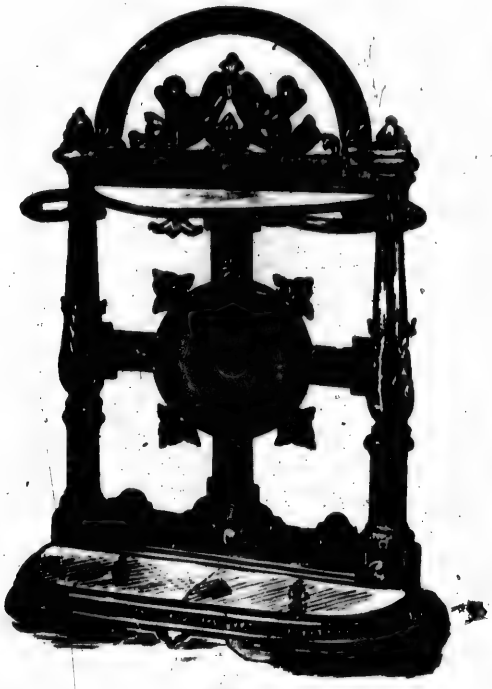
Shipped knocked down.

No. 3, height 30 inches, ... each, 6 00

Shipped singly, set up.

UMBRELLA STANDS.

No. 4.



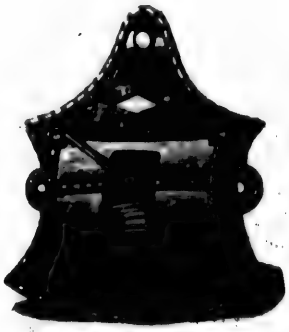
No. 5.

FANCY BRONZED.

No. 4, height 23 inches,	each, $ 7 00
No. 5, height 31 inches,	each, 11 00

Shipped set up.

MATCH SAFES.



HALF SIZE CUT. No. 2.

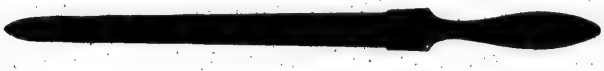
TWO-THIRDS SIZE CUT. No. 3.

BERLIN BRONZED.

No. 2,	per dozen, $2 00
No. 3,	per dozen, 2 50

Half-dozen in package.

THE CARVER'S FRIEND.

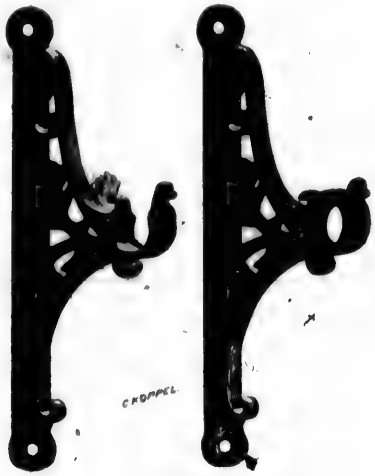


Knife Sharpener, made of best Turkish Emery. Solid. Strengthened with Steel Wire.

Per dozen, ... $3 00

Half-dozen in package.

TOWEL ROLLER BRACKETS.



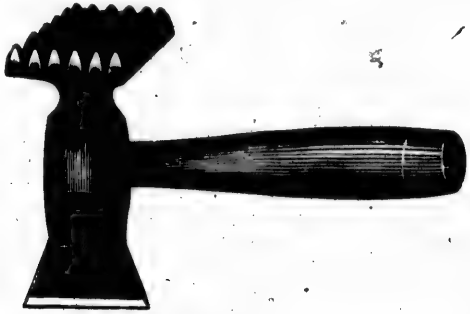
HALF SIZE CUT.

COPPERED.

Per dozen pairs, ... $2 40

One dozen pairs in package.

MEAT POUNDER AND HATCHET.



ONE-THIRD SIZE CUT.

Extra quality, Polished Hickory Handle 10½ inches long. Cast Iron Head 4⅝ inches across, finished in Gold Bronze, with 2-inch Cast Steel Knife. Extra polished.

Per dozen, ... $6 00.

Half-dozen in package.

TACK HAMMERS.

One-Third Size Cut. Nos. 2 and 12.

JAPANNED.

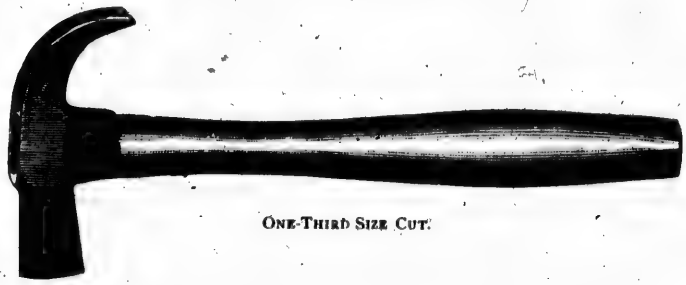
No. 1, 8 inches long, 3 -inch head,	per dozen,	$0 90
No. 2, 9½ inches long, 3¼-inch head,	per dozen,	1 40

COPPERED.

No. 11, 8 inches long, 3 -inch head,	per dozen,	$1 00
No. 12, 9½-inches long, 3¼-inch head,	per dozen,	1 50

One dozen in package.

NAIL HAMMERS.



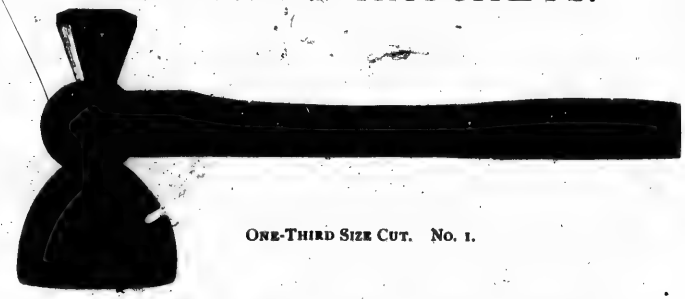
One-Third Size Cut.

5-INCH CAST IRON HEAD, POLISHED. 12½-INCH HICKORY HANDLE.

Per dozen, ... $2 00

Half dozen in Package.

SHINGLING HATCHETS.



One-Third Size Cut. No. 1.

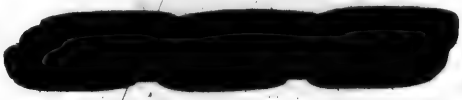
CAST IRON BLADE, POLISHED. HICKORY HANDLE.

No. 1, 5 inch Blade	per dozen,	$3 00
No. 2, 6 inch Blade	per dozen,	4 00

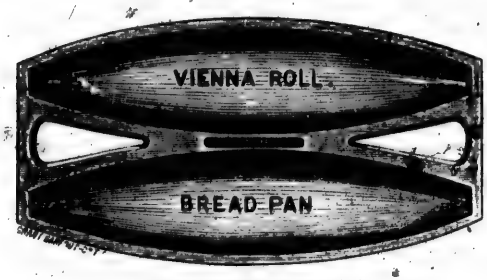
Half dozen in Package.

CAKE AND ROLL PANS.

No. 1. For eleven 2¾-inch Round Cakes.



No. 2. For eight 4-inch Oval Cakes.



No. 3. For two 12-inch Vienna Rolls.

No. 4. For six 7-inch Vienna Rolls.

No. 5. For twelve 3-inch French Rolls.

PLAIN CAST IRON.

Nos.	1	2	3	4	5
Per dozen, ...	$3 75	$3 75	$2 75	$2 50	$4 00

HOLLOW WARE.

POT.

KETTLE.

SPIDER.

GROUND AND PAINTED.

	7-inch	8-inch	9-inch	10-inch
Pots, each,	$0 53	$0 66	$0 72	$0 81
Kettles, each,	44	54	63	70
Spiders, each,	23	25	30	36
Sets, (Pot, Kettle and Spider), each,	1 20	1 44	1 65	1 87

SUGAR KETTLES.

Per lb. $0 05

SIZES:

No. 1, capacity 4 pails, weight 47 lbs.
No. 2, capacity 5 pails, weight 60 lbs.
No. 3, capacity 6½ pails, weight 73 lbs.
No. 4, capacity 10 pails, weight 121 lbs.

PAINTED BLACK.

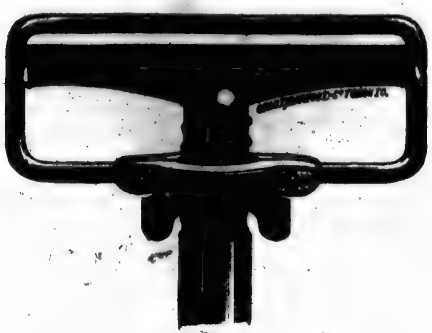
TEA KETTLES.

CAST IRON.

PIT BOTTOM, SLIDING COVER.

	7-in.	8-in.	9-in.	10-in.
Each,	$0 60	$0 72	$0 84	$0 96

MOPS.



NIAGARA.

COMBINATION MOP AND BRUSH HOLDER.

HALF SIZE CUTS OF HEADS.

Complete with 4-ft. handles, best selected woods, stained.

COPPERED CASTINGS.

Niagara,	per dozen,	$2 00
Combination,	per dozen,	2 25

One dozen in bundle.

CARPET SWEEPERS.

"AMERICAN."

VARNISHED CASES, HIGHLY ORNAMENTED.

Per dozen, ... $36 00

Half-dozen in case.

ROYAL DOMINION CLOTHES WRINGERS.

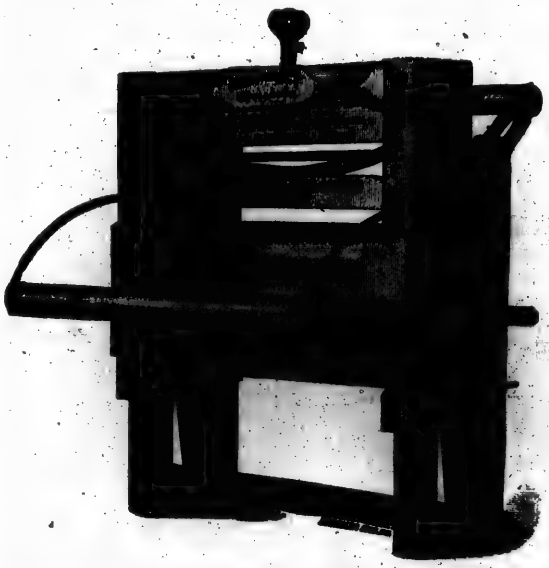
Pure White Rubber Rolls, Tinned Gears and Crank, Nickel Plated Thumb Screws, Brackets and Bolts.

WILL FIT ROUND OR SQUARE TUBS.

No. 2, 10-inch Rolls, ... per dozen, $72 00
No. 3, 11-inch Rolls, ... per dozen, 81 00

Half-dozen in case.

ROYAL CANADIAN CLOTHES WRINGERS.



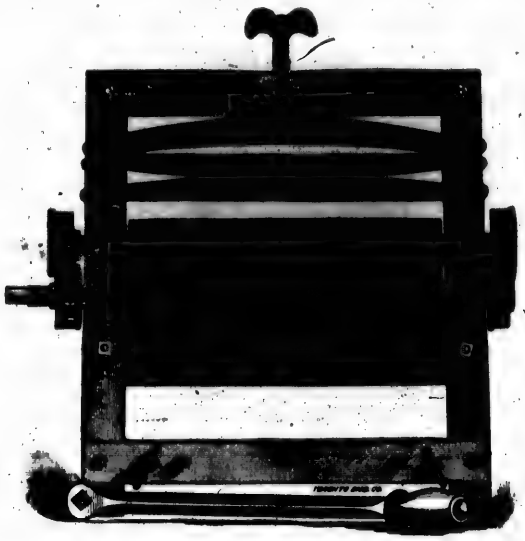
Pure White Rubber Rolls. All Iron parts Tinned.

WILL FIT ROUND OR SQUARE TUBS.

No. 3, 11-inch Rolls, . per dozen, $78 00

Half-dozen in case.

NOVELTY CLOTHES WRINGERS.



Pure white rubber rolls. All iron work tinned.

No. 2, 10-inch rolls, ... per dozen, $69 00

Half-dozen in case.

GENEVA FLUTERS.

HALF SIZE CUT.

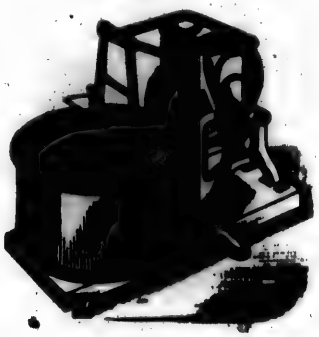
Brass crimping surfaces. Movable heater in base.

Per dozen, ... $24 00

One-sixth dozen in box.

MEAT AND VEGETABLE CHOPPERS.

STARRET'S PATENT.



Nos. 1, 2, 3 and 4.

FAMILY SIZES.

No. 1, 8-inch cylinder, ... each, $5 00

Cuts three lbs. of meat in three minutes.

No. 2, 10-inch cylinder, ... each, $7 00

Cuts six lbs. in three minutes.

No. 3, 12-inch cylinder, ... each, $10 00

Cuts eight lbs in three minutes. Extra heavy for farmers.

Four in a case.

Nos. B and 5.

BUTCHERS' SIZES.

No. 4, 15-inch block, ... each, $25 00

Cuts 60 to 75 lbs. per hour.

No. B, 18-inch block, ... each, $50 00

Mounted on stand. One crank. Cuts 80 to 100 lbs. per hour.

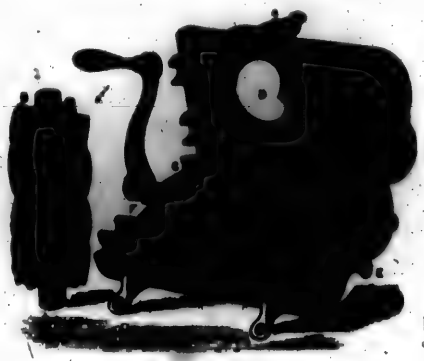
No. 5, 20-inch block, ... each, $60 00

Mounted on stand. Two cranks, as per cut.
Cuts 100 to 125 lbs. per hour.

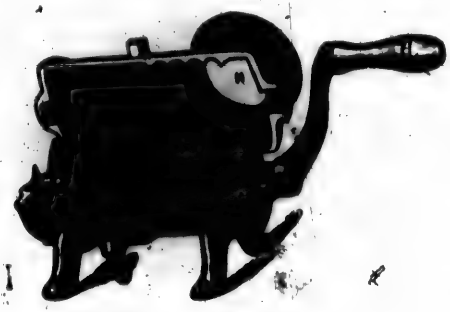
One in crate.

☞ These Choppers cut the meat evenly, and as finely as desired, and do not *grind* or *tear* it.

MEAT CUTTERS.



Nos. 1 and 2.
HALE'S.



No. 3.
MILES'.

No. 1, 6-inches long, complete with Tin Spout,	each, $2 00
No. 2, 7½ inches long, complete with Tin Spout,	each, 2 25
No. 3, 7 inches long,	each, 2 00

One-quarter dozen in case.

FRUIT, LARD, AND JELLY PRESS

AND

SAUSAGE STUFFER.

SCREW MOVEMENT. JAPANNED.

Capacity, four quarts.

Complete with Tin Spout, Tin Strainer, fitting inside cylinder, and small Plunger for use with same when pressing fruit or lard; also large Plunger, fitting tightly to cylinder, for sausage stuffing. Arch, with all mechanism attached, swings aside for filling.

Each, ... $4 00

STOW'S SAUSAGE STUFFERS.

No. 0, BUTCHER'S SIZE.

25-inch Handle. Cylinder 10 x 4½ inches. Spout (tin), 1-inch diameter. Capacity of Cylinder, 9 lbs.

Each $3 50

No. 1, FAMILY SIZE.

22½-inch Handle. Cylinder 9 x 3½ inches. Spout (tin), ¾-inch diameter. Capacity of Cylinder, 6 lbs.

Each, ... $2 00

JAPANNED.

Half-dozen in case.

AMES' SAUSAGE STUFFERS.

Tin Cylinder, 10½ x 4 inches. Capacity 15 lbs. Plunger Rack 21 x 2½ inches. 10-inch Crank. Wood Base.

IRON WORK JAPANNED.

No. 2, with one Tin Spout, 6¾ x ⅞ inches, attached by soldering, . . . each, $5 50
No. 3, with two Tin Spouts, 6¾ x ⅞ inches, and 6¼ x ¾ inches, with brass screw couplings on each, and on Cylinder, ... each, 7 00

One in crate.

TOBACCO CUTTERS.

No. 1.
ON MAPLE BOARD.

No. 3.
IRON FRAME.

No. 2.
IRON FRAME.

No. 1, Holmes' pattern, for making fine cut only from plug, Japanned, 3-inch knife, ... per dozen, $10 00

One-third-dozen in package.

No. 2, For cutting any size, Painted and Bronzed, 3-inch knife, . . per dozen, 15 00

One-sixth-dozen in package.

No. 3, Extra large and finely made, with spring gauge to regulate width of cut, Painted and Bronzed, 3¼-inch knife, ... per dozen, 30 00

One in package.

CORK PRESSERS.

HALF SIZE CUT.

JAPANNED.

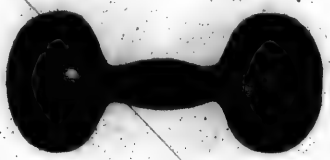
No. 1, ... per dozen, $2 25

FANCY BRONZED.

No. 12, ... per dozen, 3 00

Quarter-dozen in package.

DUMB BELLS.



JAPANNED.

Sizes 4, 5, 6, 8, 10, 12, 16, 20, 24, 28 and 36 lbs. each.

Per lb., ... $0 05

ECLIPSE STOVE PIPE DAMPERS.

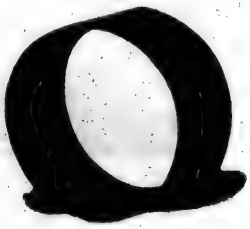
"THE BEST."

WITH BERLIN BRONZED HANDLE.

Six-inch, ...	per dozen, $1 75
Seven-inch, ...	per dozen, 2 00

One dozen in box.

STOVE PIPE THIMBLES.

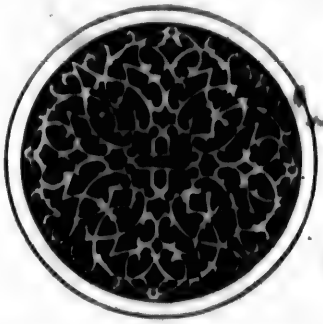


For 7-inch pipe.

For 4-inch walls, weigh 4 lbs. each.
For 5-inch walls, weigh 5 lbs. each.
For 6-inch walls, weigh 6 lbs. each.
For 7-inch walls, weigh 7 lbs. each.
For 8-inch walls, weigh 8 lbs. each.

Per lb., ... $0 05

ROUND FLOOR REGISTERS.



WITH IMPROVED SLIDE CENTRE.

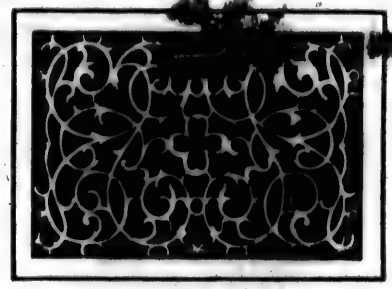
JAPANNED.

Inside Diameter.		Complete.	Without Valves.	Face only.
8 inches,	each,	$1 80	$1 15	$0 65
9 inches,	each,	2 00	1 30	75
10 inches,	each,	2 50	1 55	90
12 inches,	each,	3 30	2 00	1 20
14 inches,	each,	4 50	2 55	1 65
16 inches,	each,	5 75	3 40	2 20
20 inches,	each,	9 00	5 75	3 85

Also made to order with Gold Bronzed or Nickel Plated face at special rates.

One in package.

SQUARE FLOOR REGISTERS.



WITH IMPROVED SLIDE CENTRE.

JAPANNED.

Side of Opening.		Complete.	Without Valves.	Face only.
6 x 8,	each,	$1 80	$1 20	$0 62
8 x 10,	each,	2 90	1 75	85
8 x 12,	each,	2 80	2 00	1 00
9 x 12,	each,	3 30	2 35	1 25
10 x 14,	each,	4 00	2 85	1 75
12 x 15,	each,	5 00	3 70	2 00
14 x 22,	each,	8 00	5 50	3 10
16 x 25,	each,	10 50	7 65	5 00

Also made to order with Gold Bronzed or Nickel Plated face at special rates.

One in package.

IRON BEDSTEADS.

HOSPITAL PATTERN.

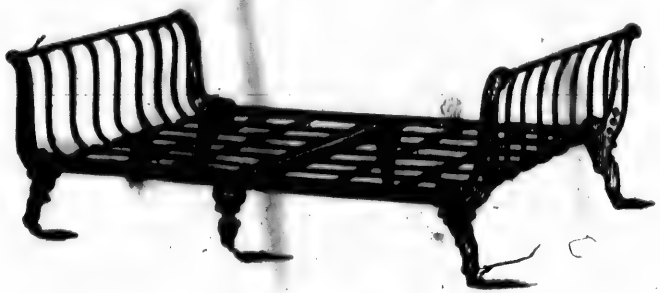
Plain Legs. Folding. Cast Iron Legs. Wrought Iron Frame.

PAINTED GREEN.

2½ feet wide, 6 feet long, ... each, $3 75

Weight, 55 lbs.

☞ Above is only size of this pattern kept in stock. Other sizes can be made to order.



HARP PATTERN.

Fancy Legs. Folding. Cast Iron Legs. Wrought Iron Frame.

FINISHED IN GREEN AND GOLD OR MAROON AND GOLD.

STOCK SIZES:

Dimensions,	2½ x 6 ft.	3 x 6 ft.	3½ x 6 ft.	4 x 6 ft.	4½ x 6 ft.
Weight,	78 lbs.	82½ lbs.	86½ lbs.	90 lbs.	96 lbs.
Each,	$5 90	$5 25	$5 50	$6 25	$7 25

Other sizes to order.

☞ Legs of this pattern can be removed for shipping "knocked down," and re-attached by means of nuts.

PHILADELPHIA LAWN MOWERS.

STYLE "M."

7-inch Driving Wheels. Solid Wiper.

Carefully made in every particular of very best material, and fully equal to the American machine. Perfect working guaranteed.

10-inch cut,	each,	$6 37
12-inch cut,	each,	6 75
14-inch cut,	each,	7 50
16-inch cut,	each,	8 25

Packed one in box, with handle in separate package.

Showing Side-Draft attachment.

By special arrangement with the American makers, we are enabled to supply these standard machines at close prices. Following are sizes and list figures:

25-inch cut, without Shafts or Seat,	each,	$ 65 00
30-inch cut, with Shafts and Seat,	each,	110 00
35-inch cut, with Shafts and Seat,	each,	135 00
40-inch cut, with Shafts and Seat,	each,	170 00
The 25-inch Mower is furnished with Shafts when desired,	price,	10 00
Horse Boots,	per set,	12 00

LAWN AND GARDEN ROLLERS.

PAINTED AND STRIPED.

No. 1, Roller 24 inches long, 19 inches diameter, weight 235 lbs.,	each,	$20 00
No. 2, Roller 36 inches long, 19 inches diameter, weight 348 lbs.,	each,	30 00
No. 3, Roller 48 inches long, 19 inches diameter, weight 460 lbs.,	each,	40 00
No. 4, Roller 60 inches long, 19 inches diameter, weight 572 lbs.,	each,	50 00

DAVIS' LAWN RAKES.

STRONG HARDWOOD FRAMES, SPRING STEEL TEETH.

No. 1.

Rake 21 inches long, 20 teeth with Brace, 5-ft. Handle.

Per dozen, ... $7 00

No. 2.

Rake 15 inches long, 14 teeth, without Brace, 5-ft. Handle.

Per dozen, ... 4 50

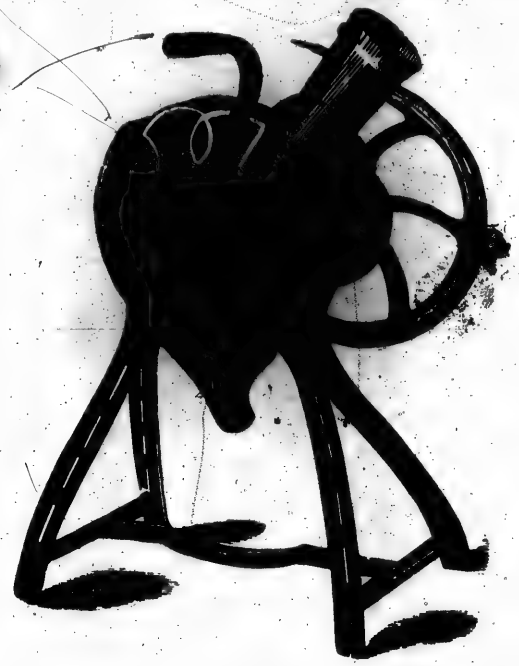
No. 3.

Rake 11 inches long, 10 teeth, without Brace, 5-ft. Handle.

Per dozen, ... 4 00

Half-dozen in bundle.

BURRALL'S CORN SHELLERS.



IRON FRAME. PAINTED AND STRIPED.

Can be easily operated by one man, and can be regulated to shell any size of corn by means of spring in Hopper.

Each, ... $9 00

KITCHEN GRINDSTONES.

CAST IRON FRAME.

Nine inches diameter, ... per dozen, $17 00
Ten inches diameter, ... per dozen, 20 00

HARPOON HAY FORKS.

MALLEABLE HANDLE AND TRIMMINGS, JAPANNED. WROUGHT IRON SHANK AND POINT, STEEL PRONGS, POLISHED.

Total length, 36 inches.

Directions for use supplied with each Fork.

Each, ... $5 00

Half dozen in case.

HAY FORK PULLEYS.

JAPANNED.

For use with Harpoon Hay Forks and innumerable other purposes.

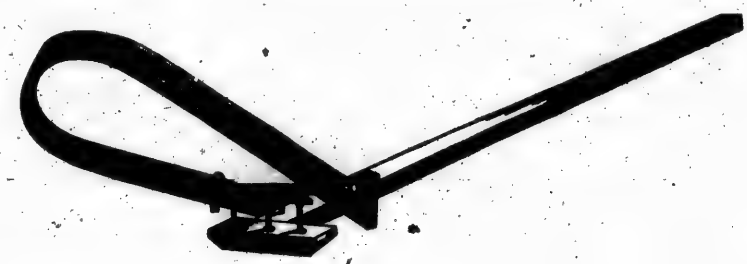
EXTRA STRONG AND SMOOTH RUNNING.

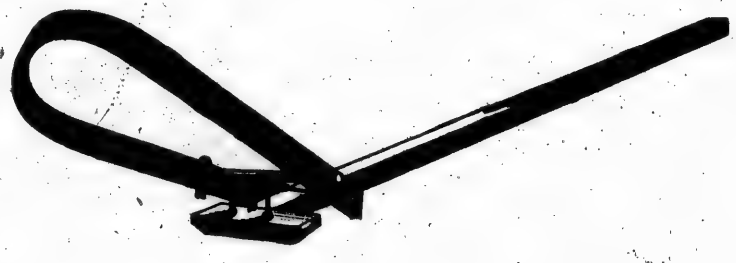
For 1-inch rope. Diameter of wheel 5½ inches.

With Swivel Eye, ... per dozen, $5 50
With Stationary Eye, ... per dozen, 5 00

Six dozen in barrel.

HORSE POKES.





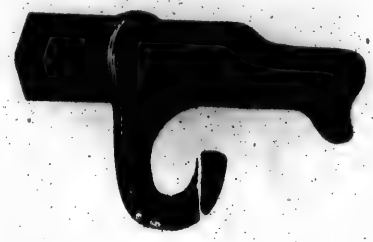
OF BEST SEASONED HARDWOOD.

MALLEABLE IRONS.

Pioneer, ...	per dozen, $9 00
American, ...	per dozen, 9 00

Half-dozen in bundle.

SAP SPOUTS.



EUREKA.
With wire hook.

FULL SIZE CUTS.

WILLIS.
All one piece.

Eureka,	per 1,000, $20 00
Willis,	per 1,000, 25 00

100 in package; 1,000 in case.

CIDER PRESS SCREWS.

CAST IRON NUTS.

No. 1, 20 inches long, 1½ inches diameter, ... each, $2 20

CAST BRASS NUTS.

No. 2, 20 inches long, 1½ inches diameter, ... each, 2 60

WINE AND HAY PRESS SCREWS

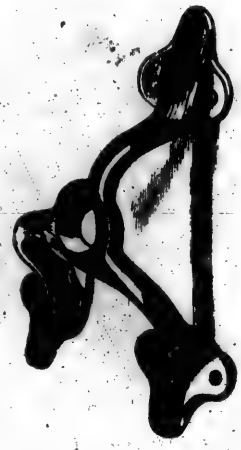
CAST IRON NUTS.

No. 3, 22 inches long, 3 inches diameter,	each, $10 00
No. 4, 24 inches long, 4 inches diameter,	each, 15 00

Special lengths to order.

MILK CAN HANDLES.

One Third Size Cut. No. 1.
Style of Nos. 1 and 2.



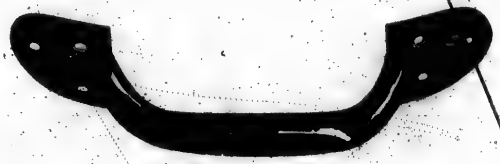
One-Third Size Cut. No. 3.

JAPANNED.

No. 1, 18-inch circle,	per pair,	$0 18
No. 2, 20-inch circle,	per pair,	20
No. 3, 22-inch circle,	per pair,	26

Nos. 1 and 2, half-dozen pairs in package, No. 3, quarter-dozen pairs.

CHEESE HOOP HANDLES.

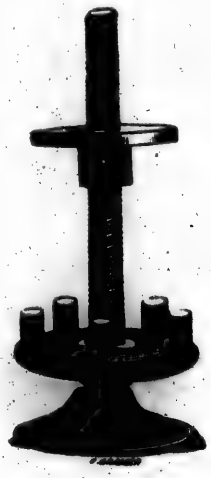


Half Size Cut.

JAPANNED.

Per pair, ... $0 12

Half-dozen pairs in package.



CHEESE PRESS SCREWS.

Made from best refined iron, specially imported.

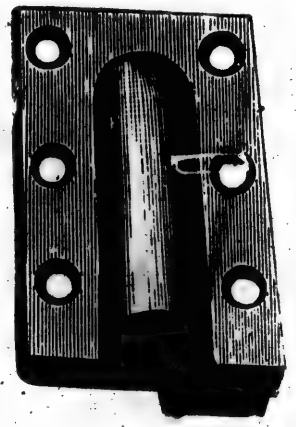
HEAVY SQUARE THREAD, THREE TO THE INCH.

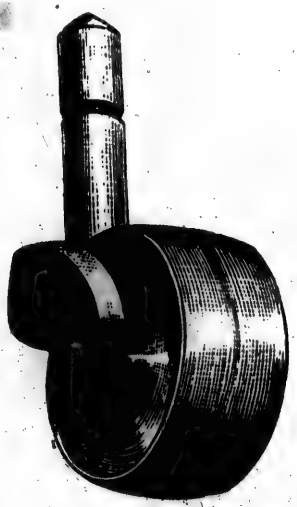
22 inches over all. Screw 16½ inches long, 1¾ inches diameter. Bottom 8½ inches diameter. Flange 8½ inches diameter. Nut 7½ inches diameter.

NUT, FLANGE AND BASE JAPANNED.

Each. $3 00

CURD SINK CASTERS.





HALF SIZE CUT. No. 0.

No. 0, wheel 3 inches diameter, 1½-inch face, . . per set of four, $2 00
No. 1, wheel 4¾ inches diameter, 1⅜-inch face, . . per set of four, 4 00

CHEESE VAT GATES.

STRAIGHT.

No. 1, inside diameter 2⅛ inches, length 7 inches,	each,	$ 1 70
No. 2, inside diameter 3 inches, length 8¼ inches,	each,	2 60

No. 1, 11½inch-Lever. No. 2, 13½-inch Lever.

See also page 126.

SPECIAL CREAMER GATES.

FULL SIZE CUT.

STRAIGHT.

With Lock Lever, extra strong, to prevent breakage when lowering cans. Diameter ⅜-inch.

JAPANNED.

Per dozen, ... $ 6 00

TINNED.

Per dozen, ... $ 6 50

One dozen in box.

STEBBINS' MOLASSES GATES.

FULL SIZE CUT. No. 2.

JAPANNED. TO SCREW.

No.	1	2	3	4	5
Inside Diameter,	13-16-in.	¾-in.	1¼-in.	1½-in.	1½-in.
Per dozen, ...	$7 00	$8 00	$9 00	$10 00	$12 00

Half-dozen in a box or package.

STEBBINS' CHEESE VAT GATES.

Same style as Molasses Gates.

No. 6, 2½ inches diameter, 8 inches long, to screw, Japanned, . . . each, $3 00

Shipped singly.

PETROLEUM FAUCETS.

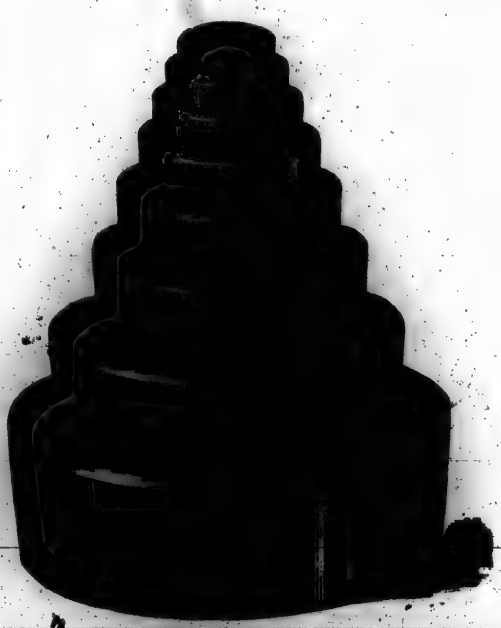
HALF SIZE CUT. ¾-INCH.

JAPANNED. TO SCREW.

⅝-inch, Brass Lever Handle, Solid Brass Plug,	per dozen,	$ 8 25
⅝-inch, Japanned Iron Lever Handle, Iron Plug, Brass Bushed,	per dozen,	9 00
¾-inch, Japanned Iron Lever Handle, Iron Plug, Brass Bushed,	per dozen,	10 50
1-inch, Japanned Iron Lever Handle, Iron Plug, Brass Bushed,	per dozen,	12 00

Diameters given are inside at shank.

Half-dozen in box.



IRON SCALE WEIGHTS.

INSPECTED AND STAMPED.

Sizes: 5 lbs., 3 lbs., 2 lbs., 1 lb., 8 oz., 4 oz., 2 oz., 1 oz., ½-oz.

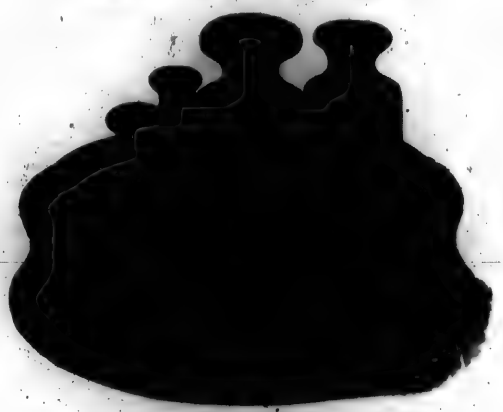
JAPANNED.

5 lbs. down to ½-oz.,	per set,	$2 10
3 lbs. down to ½-oz.,	per set,	1 73
2 lbs. down to ½-oz.,	per set,	1 30
1 lb. down to ½-oz.,	per set,	1 07
½-lb. down to ½-oz.,	per set,	83

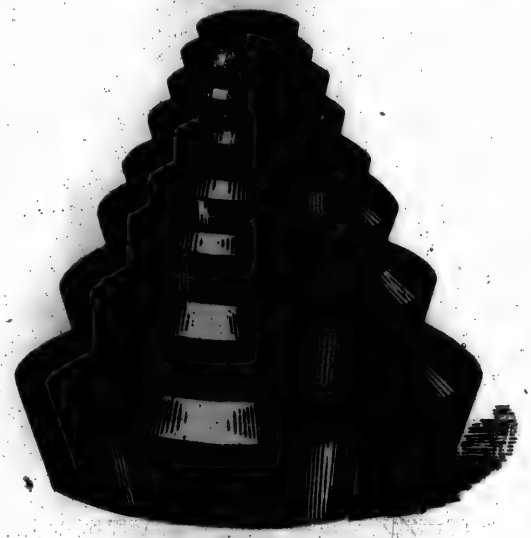
Each set papered separately.

BRASS SCALE WEIGHTS.

INSPECTED AND STAMPED.



DOMINION PATTERN. IN CIRCULAR BLOCK.



DISK PATTERN. IN NEST.

Sizes: 5 lbs., 3 lbs., 2 lbs., 1 lb., 8 oz., 4 oz., 2 oz., 1 oz., ½ oz.

Dominion pattern, per set:

5 lbs. down to ½-oz.,	$7 77
3 lbs. down to ½-oz.,	5 00
2 lbs. down to ½-oz.,	3 30
1 lb. down to ½-oz.,	2 13
½-lb. down to ½-oz.,	1 50

Disk pattern, per set:

5 lbs. down to ½-oz.,	$7 72
3 lbs. down to ½-oz.,	4 95
2 lbs. down to ½-oz.,	3 25
1 lb. down to ½-oz.,	2 08
½-lb. down to ½-oz.,	1 45

TWINE BOXES.

Nos. 1 and 4.
BEEHIVE PATTERN.

Nos. 2 and 5.
BIVALVE.

JAPANNED.

No. 1,	per dozen, $7 00
No. 2,	per dozen, 8 50

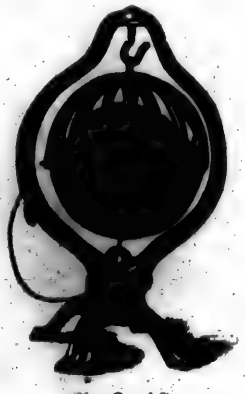
FANCY BRONZED.

No. 4,	per dozen, $8 00
No. 5,	per dozen, 9 50

Nos. 1 and 4, one in package. Nos. 2 and 5, two in package.

HANGING TWINE BOXES.

Nos. 3 and 7.
FOR CEILING.



Nos. 6 and 8.
WITH FRAME FOR COUNTER.

JAPANNED.

No. 3,	per dozen, $3 50
No. 6,	per dozen, 7 50

COPPERED.

No. 7,	per dozen, $4 50
No. 8,	per dozen, 8 50

One-third dozen in package.

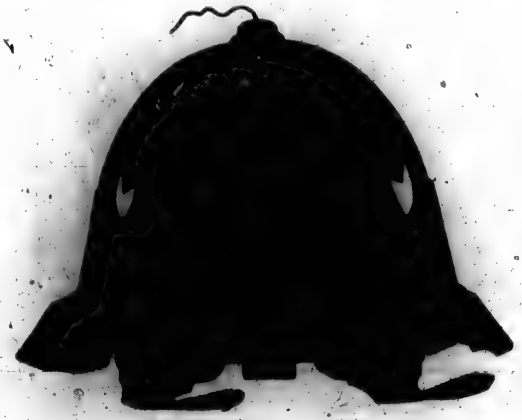
TWINE BOXES.

Nos. 10 and 20.

Nos. 15 and 25.

No. 10, Japanned,	per dozen, $7 00
No. 20, Coppered,	per dozen, 7 50
No. 15, Japanned,	per dozen, 7 50
No. 25, Berlin Bronzed,	per dozen, 8 50

One-quarter-dozen in box.

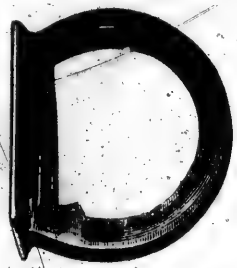


No. 30.

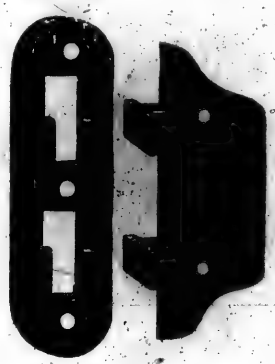
No. 30, Berlin Bronzed,	per dozen, $8 50

One in package.

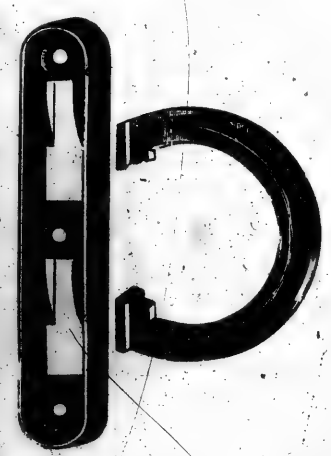
BED FASTENERS.



No. 1.
BLOCK PATTERN.



No. 2.
SARGENT'S.



No. 3.
HORSE SHOE.

No. 4.
DOVE TAIL HORSE SHOE.

HALF SIZE CUTS.

No.	1	2	3	4
Per set,	$0 10	$0 12	$0 12	$0 14

Four in set. Fifty sets in case.

WROUGHT IRON BED FASTENERS.

HALF SIZE CUT.

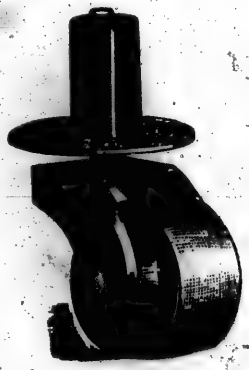
STAMPED FROM BAND IRON. GAUGE 10.

Four in set. Complete with pins.

No. 5, one hook, ...	per set,	$0 12
No. 6, two hooks, as per cut, ...	per set,	16

One hundred sets in case.

PLATE CASTERS.



FULL SIZE CUT. No. 3.

ALL IRON, COPPERED.

No.	2	3	4	5	6
Per set,	$0 11	$0 12	$0 15	$0 17	$0 20

PORCELAIN WHEEL.

Iron Plate and Horn, Coppered.

No	2	3	4	5	6
Per set,	$0 14	$0 16	$0 18	$0 20	$0 24

BRASS WHEEL.

Iron Plate and Horn, Coppered.

No.	2	3	4	5	6
Per set,	$0 26	$0 33	$0 42	$0 45	$0 60

BRASS HORN, PORCELAIN WHEEL.

Iron Plate, Coppered.

No.	2	3	4	5	6
Per set,	$0 28	$0 34	$0 40	$0 44	$0 52

BRASS HORN, BRASS WHEEL.

Iron Plate, Coppered.

No.	2	3	4	5	6
Per set,	$0 41	$0 51	$0 64	$0 72	$0 87

Four in set. Half-dozen sets in package.

PHILADELPHIA CASTERS.

ALL IRON. COPPERED.

No.	2	3	4	5	6
Per set,	$0 12	$0 13	$0 15	$0 16	$0 18

PORCELAIN WHEEL.

Iron Horn, Coppered.

No.	2	3	4	5	6
Per set,	$0 15	$0 17	$0 19	$0 20	$0 22

BRASS WHEEL.

Iron Horn, Coppered.

No.	2	3	4	5	6
Per set,	$0 27	$0 34	$0 41	$0 43	$0 58

Four in set. Half-dozen sets in package.

FULL SIZE CUT. No. 3.

BED CASTERS.

FULL SIZE CUT. 1⅝ INCH.

ALL IRON, COPPERED.

1⅝-inch,	per set of four,	$0 12
2-inch,	per set of four,	18
2¼-inch,	per set of four,	27

PORCELAIN WHEEL.

Iron Fork, Coppered.

1⅝-inch,	per set of four,	$0 17
2-inch,	per set of four,	24

BRASS WHEEL.

Iron Fork, Coppered.

1⅝-inch,	per set of four,	$0 36
2-inch,	per set of four,	63
2¼-inch,	per set of four,	90

Each set papered separately. 1⅝ inch, half-dozen sets in package; 2 and 2¼ inch, one-third-dozen sets.

☞ In bulk, 100 sets in case.

HEARSE ROLLERS.

FULL SIZE CUT.

BRASS, SILVER PLATED.

Packed with screws.

Per dozen, ... $5 00

Two dozen in box.

STORE TRUCK CASTERS.

STATIONARY.

SWIVEL.

HALF SIZE CUTS.

Wheels, 3½ inches diameter, by 1 inch face.

Stationary,	each, $0 50
Swivel,	each, 62

ORGAN CASTERS.

FULL SIZE CUT.

Per set of four,	$0 28

PIANO STOOL LEGS.

No 2. 8½ inches long.

JAPANNED OR PLAIN.

Per set of three, ... $0 50

No. 2.

No. 3. 5 inches high.

JAPANNED OR PLAIN.

Each, ... $1 30

No. 3.

TRIPOD PIANO STOOLS.

COMPLETE WITH SCREWS.

Height, exclusive of screw, 17 inches. Screw 7 inches long.

No. 1, Plain, ... each, $2 80
No. 2, Painted and Bronzed, ... each, 3 30

TRIPOD.

PIANO STOOL SCREWS.

No. 1. Round Faced Nut.
To screw in.

No. 2. Round Faced Nut.
To fasten with screws.

		¾-in.	⅞-in.	1-in.
No. 1,	per dozen,	$5 00	$5 00	$6 25
No. 2,	per dozen,	¾-in. $5 00	⅞-in. $5 00	1-in. $6 25

HAT RACK PANS.

PLAIN.

No. 1, Shell, 6 x 7½ inches,	per dozen, $2 50
No. 2, Round, diameter 9 inches,	per dozen, 3 00
No. 3, Square, 6⅞ x 8¾ inches,	per dozen, 3 60

CHAIR SCREWS.

FOR WOOD SEATS.

No. 1.

No. 1, 7¼ inches long, 1-inch diameter. Flange 5½ inches diameter. 9-inch cross plates (wrought iron) at bottom; 4-inch cross plates on nut.

Per dozen, ... $ 6 00

No. 2, 11 inches long, 4½ inches thread, 1¼ inches diameter. Flange, 6 inches diameter. Round Faced Nut, 3½ inches diameter.

Per dozen, ... $10 00

No. 2.

CHAIR SCREWS.

WITH DOVETAIL NUTS.

No. 4. WITH SPIDER FOR CANE SEATS.

Screw 7½ inches long, 1 inch diameter.

No. 3, with 5½-inch Flange for Wood Seats, ... per dozen, $12 60
No. 4, with 21-inch Spider for Cane Seats, ... per dozen, 14 40

PIVOTS AS ABOVE, NO THREADS.

No. 3, for Wood Seats, ... per dozen, $ 9 00
No. 4, for Cane Seats, ... per dozen, 10 80

PAINT MILLS.

No. 0, Painted and Striped, ... each, $3 00

QUARTER-SIZE CUT. No. 1.

HARRIS' PATENT.

PAINTED AND STRIPED.

No. 1, height 13 inches, Hopper 6½ inches diameter, by 4¼ inches deep, . . each, $ 9 00
No. 2, height 17 inches, Hopper 7 inches diameter, by 5¼ inches deep, . . each, 13 00

QUILT FRAME CLAMPS.

HALF-SIZE CUT.

ALL CAST IRON. COPPERED.

2½-inch opening.

Per dozen, $ 80

One dozen in box.

SCREW CLAMPS

HALF-SIZE CUT. 3-INCH.

WROUGHT IRON SCREW. CAST IRON FRAME.

JAPANNED.

2-inch opening	per dozen, $1 50
3-inch opening	per dozen, 2 75
4-inch opening	per dozen, 3 25
6-inch opening	per dozen, 6 00
8-inch opening	per dozen, 8 00
9-inch opening	per dozen, 9 00

2 and 3-inch, one dozen in package. 4 and 6-inch, half-dozen in package. 8 and 9-inch, loose.

BENCH SCREWS.

WROUGHT IRON SCREWS. CAST IRON HEADS AND NUTS.

JAPANNED.

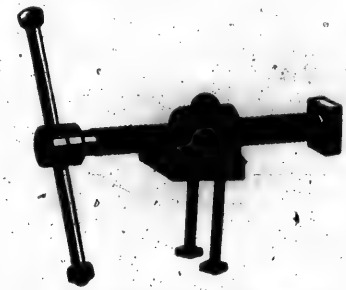
Made from specially imported Best Refined Iron. Hickory or Rock Elm Handles.

Double Thread Screws, 14 inches long.

Diameter of Screw.	1-in.	1½-in.	1¾-in.
Per dozen,	$8 00	$9 50	$11 00

Half-dozen in case.

CARPENTERS' CRAMP SCREWS.



Made from specially imported Best Refined Iron.

WROUGHT IRON HANDLES. DOUBLE THREAD SCREWS.

Cast Iron Heads and Nuts.

Screws, 12 inches long.

1 -inch diameter,	each, $1 70
1¼-inch diameter,	each, 2 20

KEYSTONE GRINDSTONE FIXTURES.

WITH FRICTION WHEEL BEARINGS.

QUARTER-SIZE CUT. No. 3½.

ENCASED ROLLERS. JAPANNED.

LIGHT WEIGHT:

No. 22, 15-inch shaft,	per dozen sets, $7 30	No. 33, 17-inch shaft,	per dozen sets, $8 75

STANDARD WEIGHT:

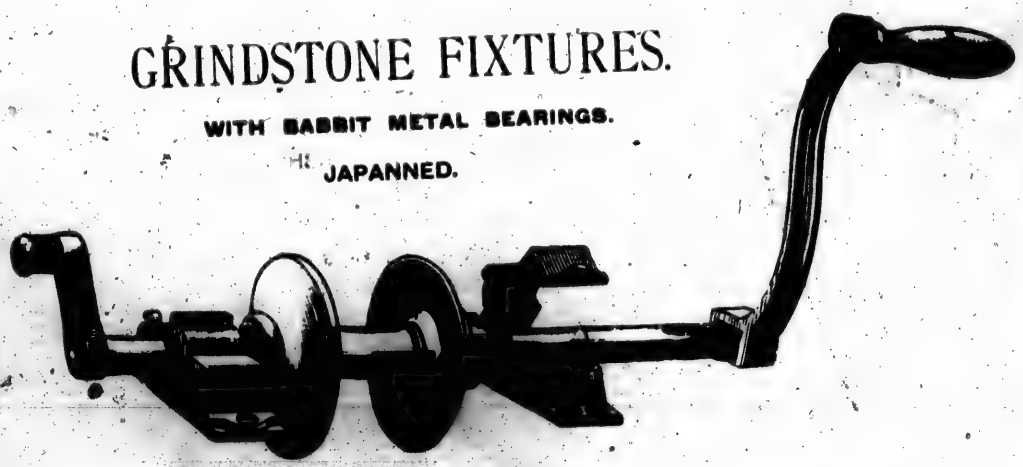
No. 2½, 15-inch shaft,	per dozen sets, $7 80	No. 4, 21-inch shaft,	per dozen sets, $11 25
No. 3, 17-inch shaft,	per dozen sets, 9 25	No. 4½, 24-inch shaft,	per dozen sets, 12 50
No. 3½, 19-inch shaft,	per dozen sets, 10 50		

Half-dozen sets in case.

GRINDSTONE FIXTURES.

WITH BABBIT METAL BEARINGS.

JAPANNED.



QUARTER-SIZE CUT.

No, 3, 17-inch shaft, per dozen sets, $9 25

Half-dozen sets in case.

IRON BRACES.

QUARTER-SIZE CUT. No. 1.

JAPANNED.

With Malleable Key to tighten Bit.

No. 1, 8 inches long,	per dozen, $3 20
No. 2, 9 inches long,	per dozen, 4 00

Half dozen in package.

PLUMB BOBS.

No. 1. IRON. JAPANNED.

3¼ inches long, 2 inches broad. Weight, each, 1 lb. 6 oz.

Per dozen, ... $2 40

Half-dozen in box.

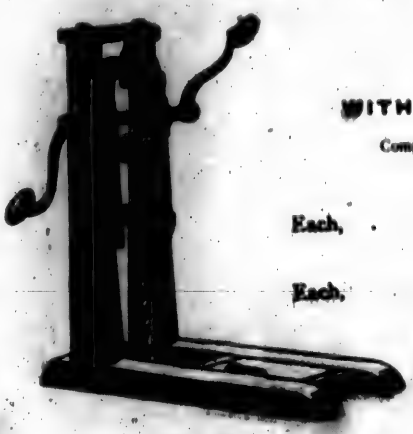
No. 2. BRASS. BURNISHED.

3⅝ inches long, 1¾ inches broad. Weight, each, 1 lb. 5 oz.

Each, ... $0 90

Quarter-dozen in box.

CARPENTERS' BORING MACHINES.



Nos. 1 and 3.
UPRIGHT.

WITH HARDWOOD FRAME AND BASE.

Complete with augers, one each, 1¼, 1½ and 2-inch, and wrench.

No. 1. ROUND SHAFT.

Each, ... $7 50

No. 3. SQUARE SHAFT.

Each, ... 8 00

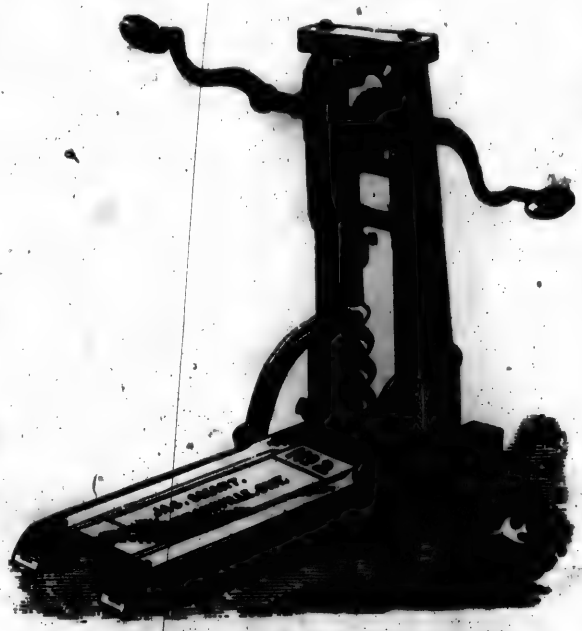
No. 2. ROUND SHAFT.

Angular, to slant in one direction only.

Stronger than the form of Angular Machine shown on page 144, the best guide acting as brace to frame.

Complete with Augers, 1¼, 1½, and 2-inch, and wrench,

Each, ... $8 30



No. 2.
ANGULAR.

CARPENTERS' BORING MACHINES.

WITH HARDWOOD FRAME AND BASE.

Nos. 4 and 4½.

Angular, with Angle Indicator. To slant in two directions.

Complete with Augers, one each 1¼, 1½ and 2 inch, and wrench.

No. 4, Round Shaft,	each,	8 50
No. 4½, Square Shaft,	each,	9 00

BORING MACHINE AUGERS.

CAST STEEL. 12 INCHES LONG.

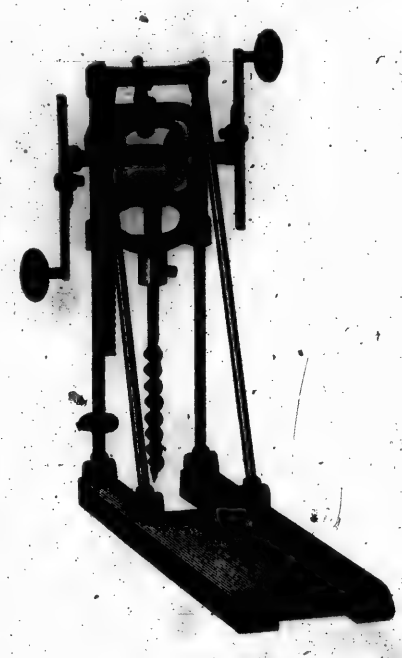
Per set, (one each 1¼, 1½ and 2 inch), ... $4 50

PEERLESS

AUTOMATIC BORING MACHINE.

THE VERY BEST.

STEEL FRAME. WOOD BASE.



This machine has been fully perfected in all its parts, and is now sold with the full warrant that it will do better work, and give better satisfaction, than any other kind in use. The frame is made of half inch round steel rods; the braces are the same and attach to the rods at the top by a set screw. When this set screw is loosened, the frame falls over so as to bore at any desired angle.

The No. 1 machine is wholly automatic, when the right depth is reached the Auger comes to a full stop, the next turn loosens the screw; then it falls into gear and is drawn out of the hole without slackening the speed or changing the motion. When raised to the top the gate hangs itself up until the machine is moved to the next hole, then, by turning the crank in same direction, it unhooks itself and descends to its work. During all these movements the hands are not removed from the cranks. The No. 2 machine is same as No. 1, except that the shifting is done with a lever moved by the hand. As seen in the cut, the machine has adjustable cranks, which fully regulate its speed and power.

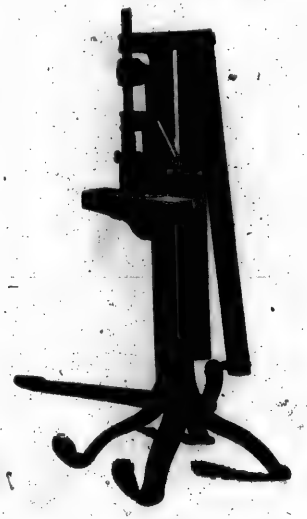
The gears on this machine are all cut.

For most purposes we recommend the No. 2 machine, as it is less complicated.

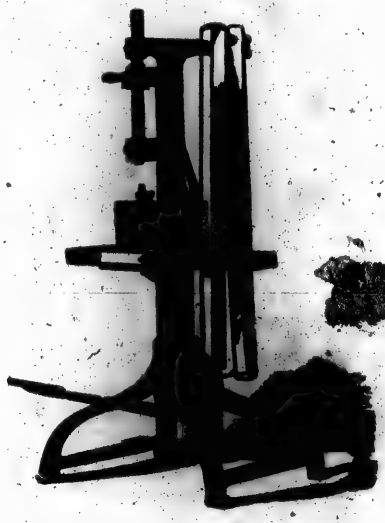
Complete with Augers. One each 1¼, 1½, and 2 inch.

No. 1, Automatic Boring Machine,	each, $15 50
No. 2, Hand Shifting Boring Machine,	each, 12 00

MORTISING MACHINES



No. 1.



No. 2.

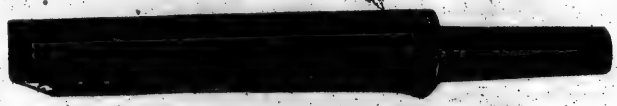
IRON FRAME, WOOD SPRINGS, WOOD TABLE.

Complete with chisels 3/16, 1/4 and 5/16-inch. Chisels lipped to draw chips from mortise.

No. 1, height, 4 ft. 5 in.,	each, $18 00
No. 2, height, 4 ft. 6 in.,	each, 20 00

Floor space occupied: No. 1, 21½ x 20 inches; No. 2, 28 x 22 inches.

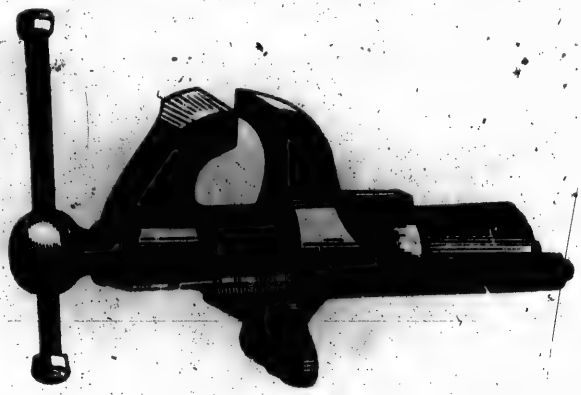
MORTISING MACHINE CHISELS.



CAST STEEL, POLISHED.

Any size to order,	each, $1 00

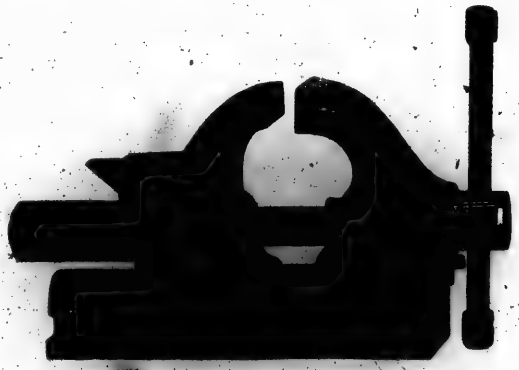
PARALLEL VICES.



OVAL SLIDE. STEEL FACED JAWS.

PAINTED AND STRIPED.

	Width of Jaws.	Jaws Open.	Weight.	Each.
No. 1,	2½ inches,	5½ inches,	13 lbs.,	$3 33
No. 2,	3 inches,	5¾ inches,	20 lbs.,	4 33
No. 3,	4 inches,	6½ inches,	25 lbs.,	5 33
No. 4,	4¾ inches,	7½ inches,	37½ lbs.,	7 00



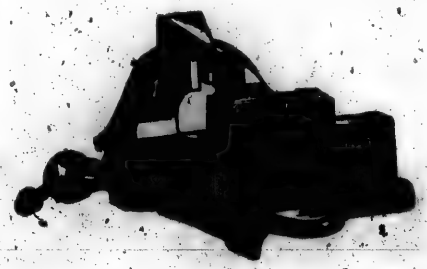
	Width of Jaws.	Jaws Open.	Weight.	Each.
No. 5,	3 inches,	6½ inches,	30 lbs.	$8 00

STEEL FACED JAWS. PAINTED AND STRIPED.

Small Anvil at back of Sliding Jaw. Wrought Iron Bolt at bottom with nut to fasten to Bench.

PARALLEL VICES.

PRENTISS' PATENT.



No. 6.
SWIVEL JAW.

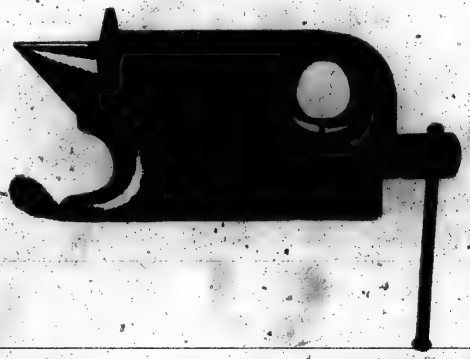
No. 7.
SWIVEL JAW, SWIVEL BASE.

The Back Jaw of these Vices adapts itself instantly to the angle of any article held in it. No. 7 has swivel base, permitting the Vice to be worked at any angle on bench.

STEEL FACED JAWS. PAINTED AND STRIPED.

	Width of Jaw.	Jaws Open.	Weight.	Each.
No. 6,	3¾ inches,	9 inches,	46 lbs.,	$10 00
No. 7,	3¾ inches,	9 inches,	50 lbs.,	12 00

COMBINED ANVIL AND VICE.



STEEL FACED JAWS. PAINTED.

Length 19 inches, width 3½ inches, depth 6½ inches. Jaws 3¾ inches wide; open 4½ inches.

Weight, 52 lbs.

Each, $5 00

COACH MAKERS' VICES.

FOR USE OF ALL WOODWORKERS.

PAINTED AND STRIPED.

No. 8.

Stationary Jaw, Stationary Base, as per cut. Jaws, 4 inches wide. Open 8 inches. Weight, 50 lbs.

Each, $10 00

No. 9.

Swivel Jaw (see cut of No. 6.) Stationary Base. Jaws, 3½ inches wide. Open 9 inches. Weight, 50 lbs.

Each, $11 00

No. 10.

Swivel Jaw, Swivel Base (see cut of No. 7.) Jaws, 3½ inches wide. Open, 7½ inches. Weight, 56 lbs.

Each, $13·00

SAW FILERS' VICES.

JAPANNED.

9 inches wide. To fasten with screws.

Per dozen, $5 00

One-sixth-dozen in package.

BLACKSMITH'S TUYERE IRONS.

No. 0. In one piece.
Weight, 16 lbs. Length, 10 inches.
Each, ... $1 50

No. 1. In one piece.
Weight, 24 lbs. Length, 10 inches.
Each, ... $2 00

No. 2.
CROW'S NEST PATTERN.
In three pieces.
15 inches long. Diameter of circular portion, 7 inches. 3-inch hole. Weight, 19 lbs.
Each, ... $2 00

BRACE DRILLS.

Frame, 16 inches long. Complete with three Drills (1-4, 5-16 and 7-16 in.)
PAINTED AND STRIPED.
Each, ... $2 00
One in package.

BLACKSMITHS' DRILLS.

HORIZONTAL.

No. 1.

PAINTED AND STRIPED.

Length of Bed, 30 inches. Socket for ½-inch round drill shank.

Weight, 30 lbs.

Each, ... $5 00

No. 2.

PAINTED AND STRIPED.

Length of Bed, 26 inches. Socket for ½-inch round drill shank. Wrought Iron Extension Crank. Eccentric Adjusting Pawl on Tail Block, permitting closer work than on No. 1.

Weight, 45 lbs.

Each, ... $6 50

BLACKSMITHS' DRILLS.

HORIZONTAL.

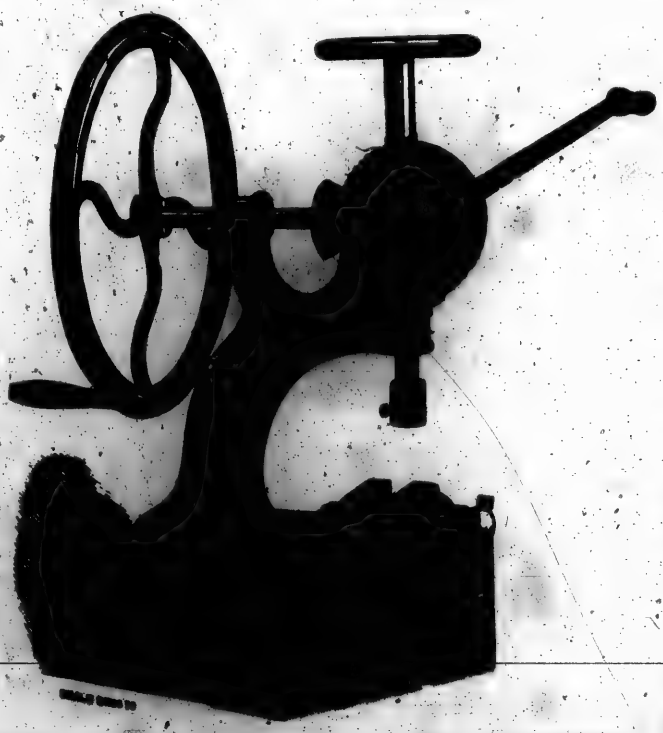
No. 3.

PAINTED AND STRIPED.

Length of Bed, 26 inches. Socket for ½-inch round drill shank. Wrought Iron Extension Crank. Self-feeding gear. Weight, 47½ lbs.

Each, ... $8 00

UPRIGHT



COE'S PATENT. HAND FEED.

With Vice Chuck.

Mounted on Wooden Stand.

PAINTED AND STRIPED.

No. 4.

Height, including stand,	28	in.
Gap,	7	in.
Diameter of Balance Wheel,	19	in.
Diameter of Feed Wheel,	6¾	in.
Diameter of Spindle,	1¼	in.

Socket for ½-inch round drill shank.

Weight, 106 lbs.

Each, ... $28 00

No. 5.

Height, including stand,	34	in.
Gap,	8½	in.
Diameter of Balance Wheel,	24	in.
Diameter of Feed Wheel,	10	in.
Diameter of Spindle,	2	in.

Socket for ½-inch round drill shank.

Weight, 187 lbs.

Each, ... $32 00

BLACKSMITHS' DRILLS.

UPRIGHT.

No. 6.
THE BOSS.

No. 7.
EXTRA LARGE.

PAINTED AND STRIPED.

No. 6.

Length of Bed,	34 inches
Diameter of Balance Wheel,	15 inches
Diameter of Feed Wheel,	7 inches
Diameter of Spindle,	1¾ inches

Socket for ½-inch Round Drill Shank. Geared for three speeds. Wrought Iron Extension Crank. Drills holes ⅛ to ⅜-inch. Weight, 96 lbs.

SELF FEEDING.

For hand, ... each, $27 00

No. 7.

Mounted on hardwood board.

Total height,	54 inches
Diameter of Balance Wheel,	14 inches
Diameter of Feed Wheel,	7¾ inches
Diameter of Spindle,	1¾ inches

Socket for ½-inch Round Drill Shank. Wrought Iron Extension Crank. Drills holes ⅛ to 1 inch. Weight, 187 lbs.

SELF FEEDING.

For hand, ... each, $50 00
For power, ... each, 56 00

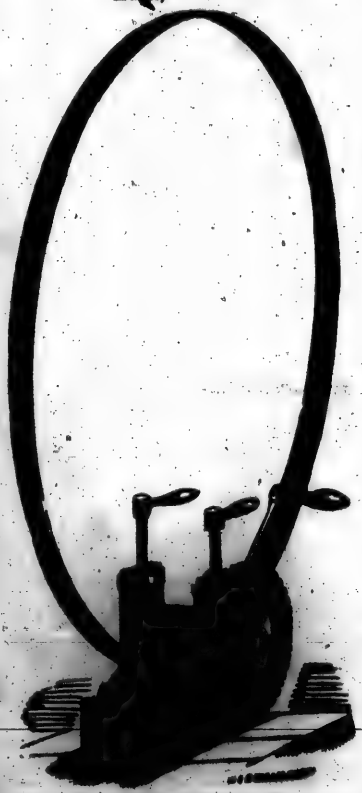
TIRE BENDERS.

No. 2.

Will bend Tires up to 3½ inches wide and ⅜-inch thick. Weight, 75 lbs.

PAINTED BLACK.

Each, ... $12 00



No. 3 and 4.

No. 3

Will bend Tires up to 3½ inches wide, and ⅜ inch thick.

Weight, 82 lbs.

Each, ... $13 00

No. 4

Will bend Tires up to 5 inches wide and any thickness.

Weight, 120 lbs.

Each, ... $17 00

TIRE UPSETTERS AND WELDERS.

THE AUTOMATIC.

With Wood Lever.

PAINTED BLACK.

No. 1.

Upsets Tires up to three inches wide and ⅜ inch thick.

Weight, 75 lbs.

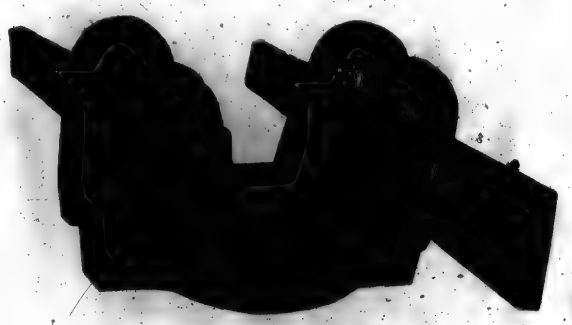
Each, $10 00

No. 2.

Upsets Tires up to 4 inches wide, and ½ inch thick.

Weight, 90 lbs.

Each, $12 00



THE EUREKA.

PAINTED BLACK.

No. 3.

Upsets Tires up to 3 inches wide and 1 inch thick.

Weight, 83 lbs.

Each, $10 00

IRON CUTTERS.

With Wrought Iron Lever and Spring Gauge.

PAINTED BLACK.

No. 2.

To cut iron up to ⅝ inch round.

Weight, 39 lbs.

Each, ... $12 00

No. 4.

To cut iron up to 1⅛ inch round.

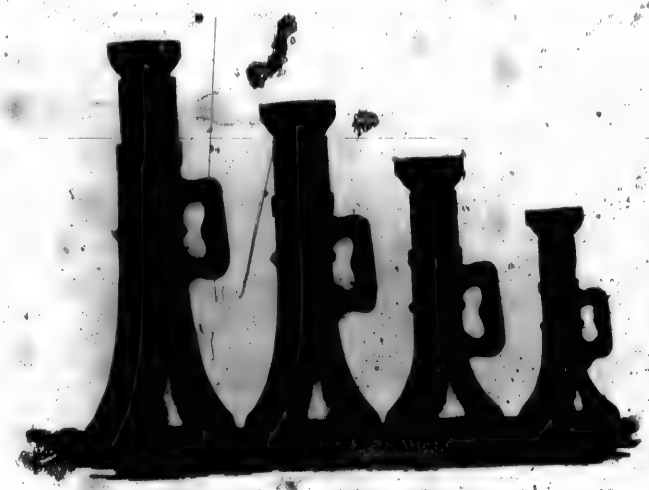
Weight, 128 lbs.

Each, ... $20 00

JACK SCREWS.

Stands, Cast Iron. Screws, Wrought Iron. Square Threads.

CUT FROM BEST REFINED IRON, SPECIALLY IMPORTED.



Nos. 15, 16, 17, 18, 19, 20, 21.

Medium weight.

BELL BOTTOM. CAST HANDLE ON SIDE OF STAND.

NEWEST DESIGN.

In the larger sizes, the Caps are strengthened by wrought iron bands.

PAINTED AND STRIPED.

	Diameter of Screw.	Height of Stand and Length of Screw.	Height over all when Screwed down.	Weight.	Each.
No. 15,	1½ inches,	8 inches,	12 inches,	15½ lbs.,	$ 3 75
No. 16,	1¾ inches,	8 inches,	12 inches,	19 lbs.,	4 25
No. 17,	1¾ inches,	12 inches,	16 inches,	23 lbs.,	5 00
No. 18,	2 inches,	12 inches,	18 inches,	38 lbs.,	7 25
No. 19,	2 inches,	16 inches,	21 inches,	46 lbs.,	8 25
No. 20,	2½ inches,	16 inches,	21 inches,	63 lbs.,	11 00
No. 21,	2½ inches,	20 inches,	26 inches,	75 lbs.,	13 00

Ratchet Levers furnished with any of above to order.

JACK SCREWS.

Stands, Cast Iron. Screws, Wrought Iron. Square Threads.

CUT FROM BEST REFINED IRON, SPECIALLY IMPORTED.

PAINTED AND STRIPED.

Nos. 1 and 2.

Original pattern, with Cast Handle on Stand.

	Diameter of Screw.	Height of Stand and Length of Screw.	Height over all when Screwed down.	Weight.	Each.
No. 1,	2 inches,	13 inches,	19 inches,	54 lbs.,	$ 8 00
No. 2,	2½ inches,	15 inches,	22½ inches,	72 lbs.,	11 00

Nos. 1 and 2.

Nos. 3, 4, 5 and 6.

Wide Bell Bottom, with wrought handles bolted on side of Stand.

Nos. 3 and 4, one handle. Nos. 5 and 6, two handles.

	Diameter of Screw.	Height of Stand and Length of Screw.	Height over all when Screwed down.	Weight.	Each.
No. 3,	1½ inches,	9½ inches,	14 inches,	27 lbs.,	$ 5 50
No. 4,	2 inches,	13½ inches,	19 inches,	61 lbs.,	8 50
No. 5,	2½ inches,	15 inches,	21½ inches,	79 lbs.,	12 00
No. 6,	3 inches,	17 inches,	23 inches,	106 lbs.,	20 00

Nos. 3 to 6.

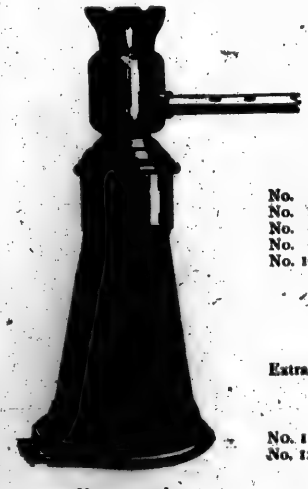
PAINTED AND STRIPED.

Nos. 6½, 7, 8, 9 and 10.

Bottle pattern with Cast Handle on side of Stand.

No. 10 has two handles.

	Diam. of Screw.	Height of Stand and Length of Screw.	Height over all when Screwed down.	Weight.	Each.
No. 6½,	1½ in.,	10 in.,	14¾ in.,	25 lbs.,	$ 4 00
No. 7,	1½ in.,	14 in.,	18½ in.,	29 lbs.,	5 00
No. 8,	1¾ in.,	16 in.,	21 in.,	42 lbs.,	6 50
No. 9,	2 in.,	19 in.,	23½ in.,	60 lbs.,	9 50
No. 10,	2½ in.,	19 in.,	26 in.,	84 lbs.,	13 00



Nos. 11 and 12.

Nos. 11 and 12.

BEST. SUPERIOR FINISH.

Extra heavy Brass Nuts. Movable Heads. Specially easy to work.

	Diam. of Screw.	Height of Stand and Length of Screw.	Height over all when Screwed down.	Weight.	Each.
No. 11,	2 in.,	14 in.,	20 in.,	53 lbs.,	$ 15 00
No. 12	2½ in.,	16 in.,	22½ in.,	85 lbs.,	17 50

Ratchet Levers furnished with any of above to order.

Nos. 6½ to 10.

RAILWAY TRAVERSING JACKS.

WITH RATCHET.

Nos. 1 and 2.

VERY FINEST QUALITY.

EXTRA LARGE AND POWERFUL.

Complete with Wrought Iron Lever.

Cap, Ratchet, and Bottom, of Malleable Cast Steel. Screws, Square Threads, double, cut 2½ to the inch. Nuts, Cast Brass.

Fully guaranteed.

PAINTED AND STRIPED.

No. 1.

Bottom, 23 inches. Height over all when screwed down, 24 inches. Length of Lifting Screw, 14 inches. Diameter, 2½ inches. Length of Traversing Screw, 18½ inches. Diameter of Traversing Screw, 1½ inches. Traverses 13 inches.

Weight, 143 lbs.

Each, $100 00

No. 2.

Bottom, 30 inches. Height over all when screwed down, 27½ inches. Length of Lifting Screw, 16 inches. Diameter, 3½ inches. Length of Traversing Screw, 24 inches. Diameter of Traversing Screw, 2 inches. Traverses 16 inches.

Weight, 233 lbs.

Each, $120 00

WAREHOUSE TRUCKS.

Made of best seasoned oak, strongly ironed, steam bent handles.

WOODS VARNISHED. IRON WORK JAPANNED.

HALF IRONED AS PER CUT.

	Length.	Width.	Diameter of Wheel.	Each.
No. 1,	4 ft. 6 in.,	19 inches,	7 inches,	$6 00
No. 2,	4 ft. 10 in.,	20 inches,	8½ inches,	7 00
No 3,	4 ft. 10 in.,	22 inches,	9½ inches,	9 00

FULL IRONED.

	Length.	Width.	Diameter of Wheel.	Each.
No. 1,	4 ft. 6 in.,	19 inches,	7 inches,	$ 8 00
No. 2.	4 ft. 10 in.,	20 inches,	8½ inches,	9 00
No. 3,	4 ft. 10 in.,	22 inches,	9½ inches,	12 00
No. 4,	5 ft. 7 in.,	22½ inches,	11 inches,	14 00

Barrel Trucks, with curved iron cross bars, made to order.

RAILWAY BAGGAGE TRUCKS.

No. 1.

8 feet, 8 inches long; 2 feet wide. Two wheels.

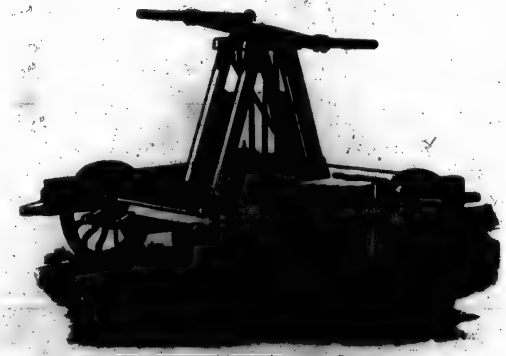
No. 2.

10 feet long. 2 feet, 4 inches wide. Height of end pieces, 2 feet. Three wheels.

ASH WOODS, VARNISHED; IRON WORK, JAPANNED,

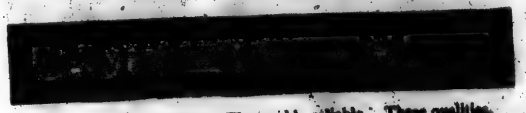
No. 1,	each,	$33 50
No. 2,	each,	50 00

RAILWAY HAND CARS.



Pumpers, Crank, or Push Cars made to order. Standard quality. At close prices.

ANTI-FRICTION BABBIT METAL.



A Standard Composition. Thoroughly reliable. These qualities.

No. 1, 3 lbs. in bar,	per lb.,	$0 30
No. 2, 3 lbs. in bar,	per lb.,	0 25
No. 3, 3 lbs. in bar,	per lb.,	0 20

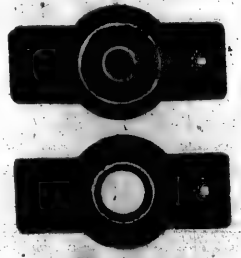
HORSE WEIGHTS.

Two sizes, 15 and 20 lbs.

PAINTED BLACK.

Per lb., $0 05

BOLSTER PLATES.



5¼ inches broad.

Two lengths: 10-inch, weighing 10 lbs. per pair; 12-inch, weighing 12 lbs. per pair.

Per lb., $0 05

CART BOXES.

Four in set. Two large. Two small.

Trade Size.	Inside Diameter of Large Box.	Inside Diameter of Small Box.
2¾ in.,	2¾ in.,	1¾ in.,
3 in.,	3 in.,	1⅞ in.,
3¼ in.,	3¼ in.,	1¾ in.,
3½ in.,	3½ in.,	2 in.,
3¾ in.,	3¾ in.,	2¼ in.,
4 in.,	4 in.,	2½ in.,
4¼ in.,	4¼ in.,	2¾ in.,

Per lb., ... $0 04

SEAMLESS WAGON SKEINS.

Four in set.

Trade Size.	Diameter of Shell at Large End.	Length of Shell Taken Underneath.	Weight.	Per [illegible]
2½ in.,	2½ in.,	7½ in.,	38 lbs.,	$2 75
2¾ in.,	2¾ in.,	8 in.,	48 lbs.,	3 00
3 in.,	3 in.,	9½ in.,	62 lbs.,	3 50
3¼ in.,	3¼ in.,	10 in.,	82 lbs.,	4 75
3½ x 11 in.,	3½ in.,	11 in.,	91 lbs.,	5 00
3½ x 13 in.,	3½ in.,	12 in.,	101 lbs.,	5 15
3¾ in.,	3¾ in.,	12 in.,	102 lbs.,	5 30
4 in.,	4 in.,	12 in.,	116 lbs.,	6 00
4¼ in.,	4¼ in.,	12 in.,	126 lbs.,	7 00

SHELLS ONLY.

Per lb., ... $0 05

NUTS ONLY.

Per set, ... $0 50

The James Smart Manufacturing Co., Brockville, Ont.

SKELETON WHIP SOCKETS.

FULL SIZE CUT. No. 1 FULL SIZE CUT. No. 2

JAPANNED.

No. 1, for Wood Dash,	per dozen, $1 00
No. 2, for Leather Dash,	per dozen, 2 00

[illegible] dozen in box.

SELF-ADJUSTABLE WHIP SOCKETS.

THREE-QUARTER SIZE CUT.

STAMPED FROM BEST CHARCOAL SHEET IRON.

No. 3, Japanned, for Leather Dash, ... per dozen, $5 00

One dozen in box.

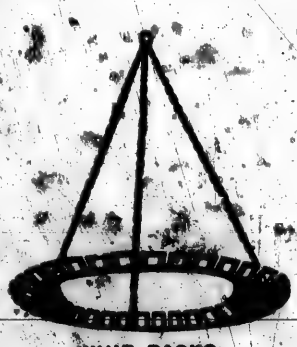
BREAST STRAP SLIDES.

JAPANNED.

	1¼ in.	1½ in.	1¾ in.	2 in.
Per dozen, ...	$0 60	$0 60	$0 60	$0 90

One dozen in package.

HALF SIZE CUT.
1¾ inch Breast Strap Slide.



WHIP RACKS.

WHIP RACKS.

JAPANNED.

No. 1, Straight, 6 inches long, ... per dozen, $3 00

One dozen in package.

No. 2, Circular, 17 inches diameter, no chains, . . per dozen, 8 00

Half-dozen in package.

No. 3, Circular, 17 inches diameter, with chains, . per dozen, 12 00

Half-dozen in package.

SPRING BAR BOLTS.

SQUARE NECKS.

ACORN HEADS.

STEEPLE HEADS.

CONE HEADS.

FULL SIZE CUTS.

BRASS HEADS. SILVER PLATED.

Acorn, Steeple, or Cone.

2½ x ¼, 2¾ x ¼, 2½ x 5-16, or 2¾ x 5-16 inches.

Per dozen, ... $1 60

IRON HEADS. NICKEL PLATED.

Steeple or Cone.

2½ x ¼, 2¾ x ¼, 2½ x 5-16, or 2¾ x 5-16 inches.

Per dozen, ... $1 20

Length measured from under head to tip.

Two dozen in box.

PLAIN SHAFT SOCKETS.

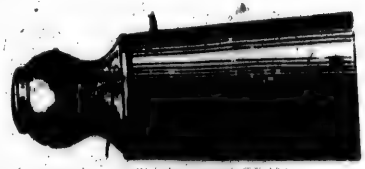
1¼ inches long.

BURNISHED. BRASS OR SILVER PLATED.

Diameter,	¼ in.	⅜ in.	1 in.	1⅛ in.	1¼ in.
Per dozen pairs,	$2 55	$2 70	$3 00	$3 50	$4 00

One dozen pairs in box.

BALL SHAFT SOCKETS.



1¼ inches long.

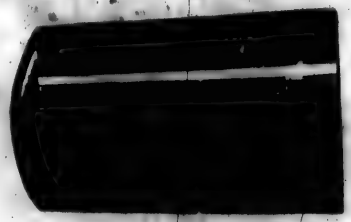
BURNISHED. BRASS OR SILVER PLATED.

Diameter,	¼ in.	⅜ in.	1 in.	1⅛ in.	1¼ in.
Per dozen pairs,	$3 25	$3 50	$3 85	$4 40	$5 00

One dozen pairs in box.

Diameters measured at large end inside. Lengths measured from tip to tip.

PLAIN POLE SOCKETS.



2¼ inches long.

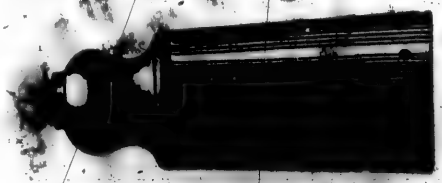
BURNISHED. BRASS OR SILVER PLATED.

HEAVY.

Diameters,	1⅛ in.	1¼ in.	1⅜ in.	[illegible]
Per dozen,	$4 50	$5 00	$5 50	[illegible]

One dozen in box.

BALL POLE SOCKETS.



3¼ inches long.

BURNISHED. BRASS OR SILVER PLATED.

HEAVY.

Diameter,	1⅛ in.	1¼ in.	1⅜ in.	1½ in.
Per dozen,	$5 50	$6 25	$7 00	$8 00

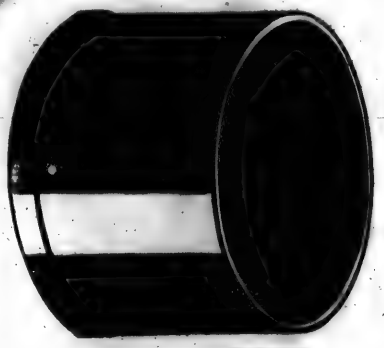
One dozen in box.

Diameters measured at large end inside. Lengths measured from tip to tip.

CARRIAGE BANDS.

CINCINNATI RIM.

BURNISHED.



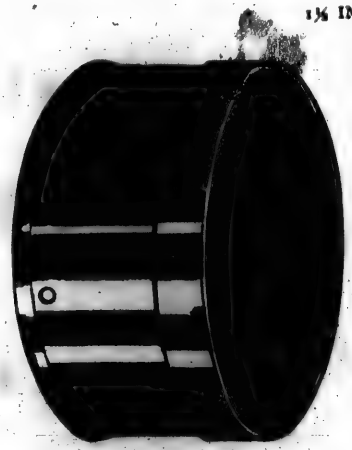
BRASS OR SILVER PLATED.

Diameter (inside.)	Per set.	Diameter (inside.)	Per set.
2⅛ in.,	$2 10	3¼ in.,	$2 60
2¼ in.,	2 10	3⅜ in.,	2 75
2⅜ in.,	2 10	3½ in.,	2 90
2½ in.,	2 10	3⅝ in.,	4 65
2⅝ in.,	2 15	3¾ in.,	5 05
2¾ in.,	2 20	3⅞ in.,	5 45
2⅞ in.,	2 25	4 in.,	6 90
3 in.,	2 30	4¼ in.,	7 70
3⅛ in.,	2 45		

2⅛ to 3⅛ in. (inclusive), 1¼ in. deep; 3⅛ to 3⅞ in., 2 in. deep; 4 and 4¼ in., 2¼ in. deep.

NEW YORK RIM.

1⅛ INCHES DEEP. BURNISHED.



BRASS OR SILVER PLATED.

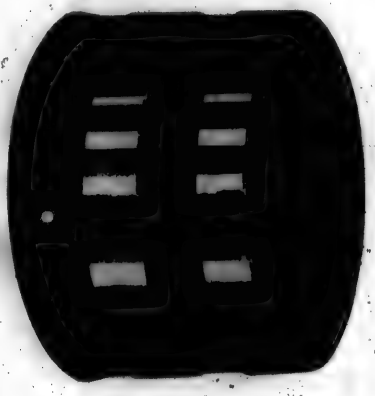
Diameter (inside.)	Per set.	Diameter (inside.)	Per set.
2¼ in.,	$1 65	3¼ in.,	$2 05
2⅜ in.,	1 65	3⅜ in.,	2 15
2½ in.,	1 65	3½ in.,	2 25
2⅝ in.,	1 70	3⅝ in.,	2 50
2¾ in.,	1 75	3¾ in.,	2 75
2⅞ in.,	1 80	3⅞ in.,	3 00
3 in.,	1 85	4 in.,	3 25
3⅛ in.,	1 95	4¼ in.,	3 75

Four in set. One set in package.

CARRIAGE BANDS.

VICTORIA RIM.

Raised part only burnished. Hollow left dull for paint.



BRASS OR SILVER PLATED.

Diameter (Inside.)	Per set.	Diameter (Inside.)	Per set.
2⅜ in.,	$2 10	3¼ in.,	$2 60
2½ in.,	2 10	3⅜ in.,	2 75
2⅝ in.,	2 10	3½ in.,	2 90
2¾ in.,	2 10	3⅝ in.,	4 65
2⅝ in.,	2 15	3¾ in.,	5 05
2¾ in.,	2 20	3⅞ in.,	5 45
2⅞ in.,	2 25	4 in.,	6 90
3 in.,	2 30	4¼ in.,	7 70
3⅛ in.,	2 45		

2⅜ to 3⅛ in. (inclusive), 1⅜ in. deep; 3⅛ to 3⅜ in., 2 in. deep; 4 and 4¼ in., 2¼ in. deep.

BELL FRONT RIM.

BURNISHED.

BRASS OR SILVER PLATED.

Diameter (Inside.)	Per set.	Diameter (Inside.)	Per set.
2⅜ in.,	$2 30	3⅛ in.,	$2 80
2½ in.,	2 30	3¼ in.,	2 90
2⅝ in.,	2 40	3⅜ in.,	3 00
2¾ in.,	2 50	3½ in.,	3 10
2⅞ in.,	2 60	3¾ in.,	3 30
3 in.,	2 70		

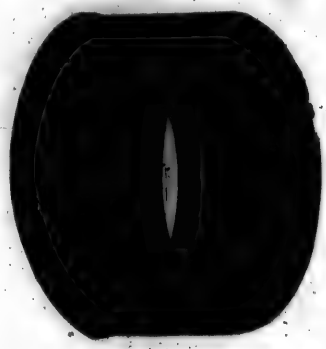
2⅜ to 2⅞ in. (inclusive), 1⅜ in. deep; 3 to 3⅛ in. (inclusive), 1¾ in. deep; 3⅛ and 3¾ in., 1⅞ in. deep.

Four in set. One set in package.

CARRIAGE BANDS.

CENTRAL PARK.

1¼ INCHES DEEP. BURNISHED.



BRASS OR SILVER PLATED.

Diameter (inside.)	Per set.	Diameter (inside.)	Per set.
2⅜ in.,	$2 30	3¼ in.,	$2 90
2½ in.,	2 30	3⅜ in.,	3 00
2⅝ in.,	2 40	3½ in.,	3 10
2¾ in.,	2 50	3⅝ in.,	3 35
2⅞ in.,	2 60	3¾ in.,	3 60
3 in.,	2 70	3⅞ in.,	3 85
3⅛ in.,	2 80	4 in.,	4 10

BELL FRONT CENTRAL PARK.

1¼ INCHES DEEP. BURNISHED.

BRASS OR SILVER PLATED.

Diameter (inside.)	Per set.	Diameter (inside.)	Per set.
2⅜ in.,	$3 50	3⅛ in.,	$4 00
2½ in.,	3 50	3¼ in.,	4 10
2¾ in.,	3 70	3⅜ in.,	4 20
2⅞ in.,	3 80	3½ in.,	4 30
3 in.,	3 90	3¾ in.,	4 50

Four in set. One set in package.

CARRIAGE BANDS.

BOSTON OPEN.

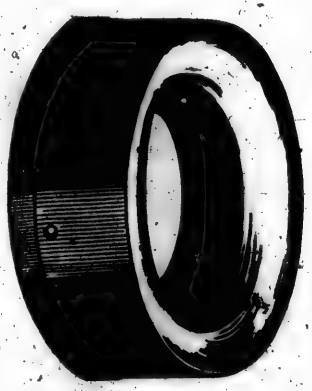
1¼ INCHES DEEP. BURNISHED.

BRASS OR SILVER PLATED.

Diameter (inside.)	Per set.	Diameter (inside.)	Per set.
2½ in.,	$1 35	3½ in.,	$1 95
2¾ in.,	1 45	3⅝ in.,	2 20
3 in.,	1 55	3¾ in.,	2 45
3⅛ in.,	1 65	4 in.,	2 95
3¼ in.,	1 75	4⅛ in.,	3 60
3⅜ in.,	1 85	4½ in.,	3 95

PHILADELPHIA OPEN.

BURNISHED.



BRASS OR SILVER PLATED.

Diameter (inside.)	Per set.	Diameter (inside.)	Per set.
2½ in.,	$1 45	3⅝ in.,	$2 30
2¾ in.,	1 55	3¾ in.,	2 55
3 in.,	1 65	4 in.,	3 05
3⅛ in.,	1 75	4⅛ in.,	3 30
3¼ in.,	1 85	4¼ in.,	3 55
3⅜ in.,	1 95	4½ in.,	4 05
3½ in.,	2 05		

3½ to 4¼ in., 1⅛ in. deep; 3 to 4¼ in., 1¼ in. deep; 4½ in., 1½ in. deep.

Four in set. One set in package.

CARRIAGE BANDS

BREWSTER SCREW.

BURNISHED. WITH SCREW CAP.

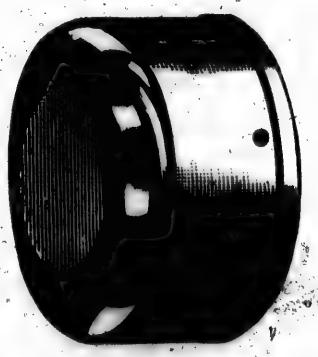
Wrench with each set.

Diameter (inside.)	Per set.	Diameter (inside.)	Per set.
2⅛ in.,	$4 00	3⅛ in.,	$4 60
2⅜ in.,	4 00	3½ in.,	4 80
2⅜ in.,	4 00	3⅝ in.,	5 20
2½ in.,	4 00	3¾ in.,	5 40
2⅝ in.,	4 00	3⅞ in.,	5 60
2¾ in.,	4 00	4 in.,	5 80
2⅞ in.,	4 00	4⅛ in.,	6 00
3 in.,	4 00	4¼ in.,	6 20
3⅛ in.,	4 20	4⅜ in.,	6 40
3¼ in.,	4 40	4½ in.,	6 60

PHILADELPHIA SCREW.

BURNISHED. WITH SCREW CAP.

Wrench with each set.

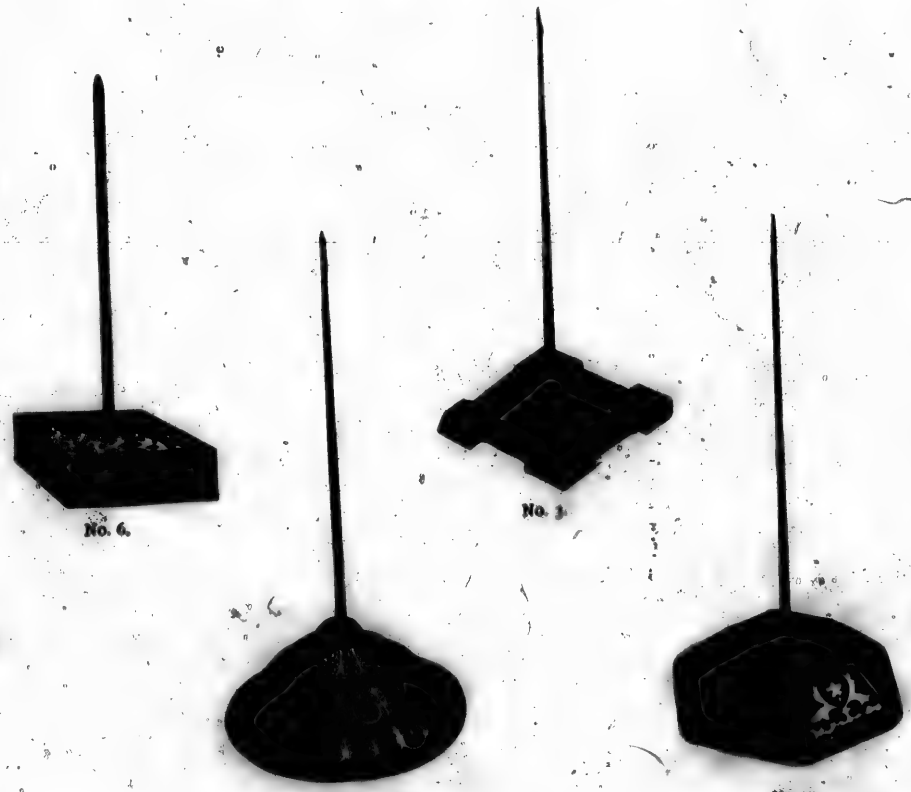


BRASS OR SILVER PLATED.

Diameter (inside.)	Per set.	Diameter (inside.)	Per set.
2¾ in.,	$4 00	3½ in.,	$4 80
2⅞ in.,	4 00	3⅝ in.,	5 00
3 in.,	4 00	3¾ in.,	5 20
3⅛ in.,	4 20	3⅞ in.,	5 40
3¼ in.,	4 40	4 in.,	5 60
3⅜ in.,	4 60	4¼ in.,	6 40

Four in set. One set in package.

SPIKE PAPER FILES.



HALF-SIZE CUTS.

BERLIN BRONZED. TINNED WIRES.

No. 6, 4 in. Wires,	per dozen, $1 [illegible]
No. 3, 7 in. Wires,	per dozen, [illegible]
No. 4, 7 in. Wires,	per dozen, [illegible]
No. 5, 7 in. Wires,	per dozen, 1 75

Half dozen in package.

HOOK PAPER FILES.

No. 0. No. 1. No. 2.

HALF-SIZE CUTS.

TINNED WIRES.

No. 0, Japanned, 6½ in. Wires,	per dozen, $1 60
No. 1, Berlin Bronzed, 6½ in. Wires,	per dozen, 1 75
No. 2, Berlin Bronzed, 6½ in. Wires,	per dozen, 1 75

One dozen in box.

PAPER CLIPS.

FULL SIZE CUT. No. 1.
Style of Nos. 1, 2 and 3.

BERLIN BRONZED.

No. 1, 2⅞ x 1¾ inches,	per dozen, $1 60
No. 2, 3⅝ x 2⅛ inches,	per dozen, 2 00
No. 3, 4 x 2⅝ inches,	per dozen, 3 00

One dozen in box.

FULL SIZE CUT. No. 0.

BERLIN BRONZED.

No. 0, 3¼ x 1¾ inches, . . per dozen, $2 00

One dozen in box.

HALF SIZE CUT. No. 4.

BERLIN BRONZED.

No. 4, 4⅝ x 3 inches, . . per dozen, $2 40

One dozen in box.

PAPER WEIGHTS.

Two-Thirds Size Cut. No. 50.

Two-Thirds Size Cut. No. 70.

Style of Nos. 55 and 56. Half Size Cut. No. 56.

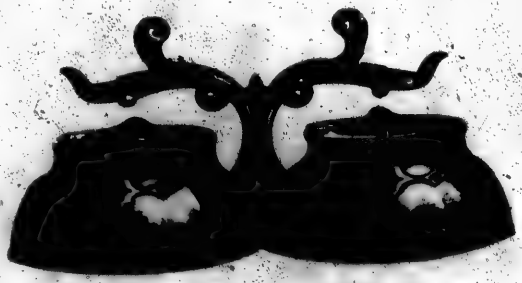
Half Size Cut. No. 60.

No. 50, Berlin Bronzed, with Brass Knob,	Half-dozen in box.	per dozen, $4 00
No. 70, Berlin Bronzed,	Half-dozen in box.	per dozen, 3 00
No. 55, Berlin Bronzed, 4¼ x 2 inches,	One dozen in package.	per dozen, [illegible]
No. 56, Berlin Bronzed, 6¼ x 2 inches,	Half-dozen in package.	per dozen, 2 75
No. 60, Berlin Bronzed,	Quarter-dozen in package.	per dozen, 5 00

INK STANDS.

No. 1. Two-Thirds Size Cut.

No. 2. Two-Thirds Size Cut.



No. 3. Half Size Cut.

No. 8. Half Size Cut.

BERLIN BRONZED.

Complete with Glass Ink Wells.

No. 1,	per dozen, $4 00
Half-dozen in box.	
No. 2, with Pen Rack,	per dozen, 4 00
Half-dozen in box.	
No. 3, Double, with Pen Rack,	per dozen, 8 00
One-sixth dozen in box.	
No. 8, Single, with Pen Rack,	per dozen, 4 00
Half-dozen in box.	

PEN RACKS.

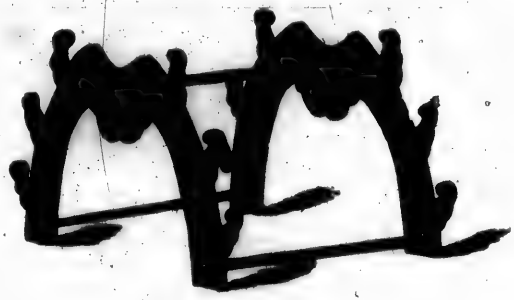
Two-Thirds Size Cut. No. 1.

No. 1.

BERLIN BRONZED.

Per dozen, ... $2 00

One dozen in box.



Half Size Cut. No. 3.

No. 3.

BERLIN BRONZED.

Per dozen. $2 66

Half-dozen in box.

Half Size Cut. No. 4.

No. 4.

BERLIN BRONZED.

Per dozen, ... $3 00

Half-dozen in box.

PEN RACKS.

HALF SIZE CUT. No. 5.

No 5.

BERLIN BRONZED.

Per dozen, ... $4 00

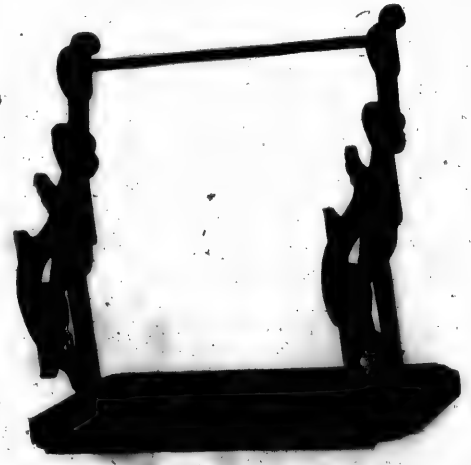
One-third dozen in box.

No. 2.

BERLIN BRONZED.

Per dozen, ... $3 34

Half-dozen in box.



HALF SIZE CUT. No. 2.

WATER BOWLS.

FOR COPYING BRUSHES.

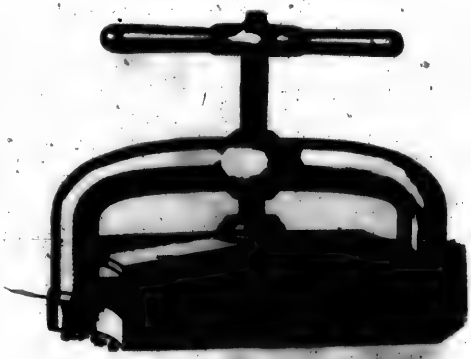
BERLIN BRONZED.

Per dozen, ... $4 00

One-sixth dozen in package.

HALF SIZE CUT.

COPYING PRESSES.



Nos. 4 and 5.

SCOTCH PATTERN.

With Wheel, Ball Lever, or Bar, as per cut.

No. 4,	Platen, 9½ x 11¾ in.,	each, $ 7 00
No. 5,	Platen, 10¾ x 13¾ in.,	each, 9 00
No. 4½,	Platen, 10½ x 15½ in.,	each, 11 00
No. 5½,	Platen, 12 x 18 in.,	each, 16 00

PAINTED AND STRIPED.

Nos. 1 and 2.

Nos. 1 and 2.

With Ball Lever, Bar, or Wheel, as per cut.

No. 1,	Platen, 9½ x 13 in.,	each, $8 00
No. 2,	Platen, 10 x 15 in.,	each, 9 50

PAINTED AND STRIPED.

☞ Purchaser's name in gold on any press, 25 cts. extra.

COPYING PRESSES.

Nos. 11, 12, 11½, and 12½. With Concave Wheel.

Painted and Striped.

With painted uprights.

	Each.
No. 11, Platen, 9½ x 13 in.,	$13 00
No. 12, Platen, 10 x 16 in.,	$16 00

Painted and Striped.

With brass uprights, Nickel Plated.

	Each.
No. 11½, Platen, 9½ x 13 in.,	$15 00
No. 12½, platen, 10 x 16 in.,	$18 00

Nos. 6, 7, and 8. Nickel Plated Lever. Polished Brass Mountings.

NEW YORK PATTERN.

	Each.
No. 6, Platen, 10 x 12½ in.,	$13 00
No. 7, Platen, 10½ x 15½ in.,	$16 00
No. 8, Platen, 10½ x 18½ in.,	$21 25

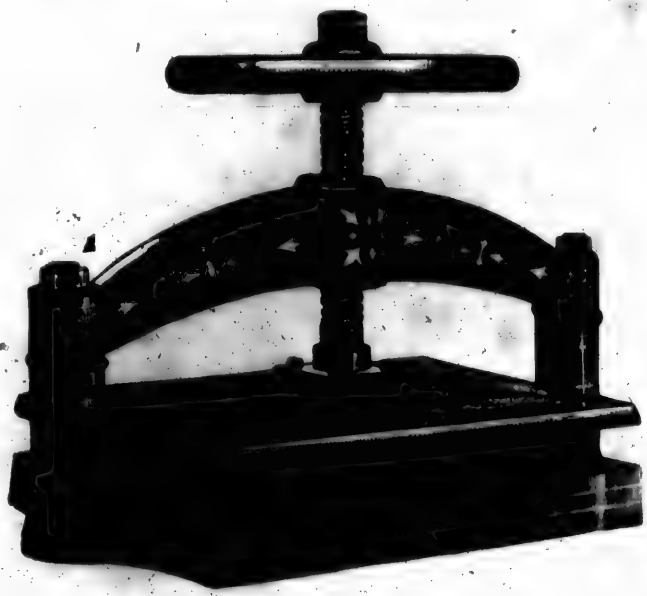
Painted and Striped.

☞ Purchaser's name in gold on any press, 25 cts. extra.

COPYING PRESSES.

RAILWAY PATTERN.

For Way Bills, etc.



PAINTED AND STRIPED.

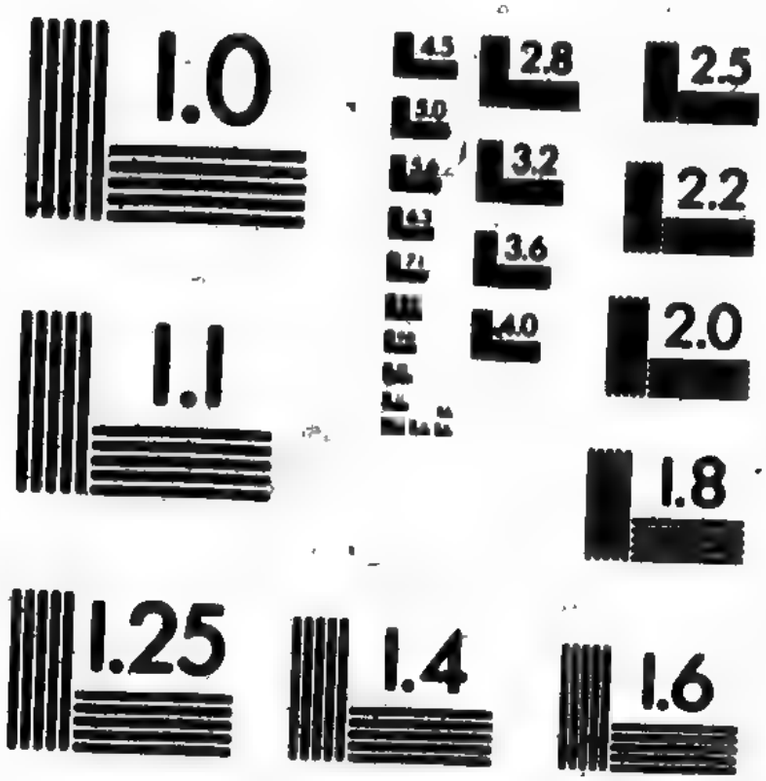
With Concave Wheel.

No. 9, Platen, 13 x 19 in.,	each, $26 00
No. 10, Platen, 14½ x 21 in.,	each, 29 00
No. 10½, Platen, 20 x 24 in.,	each, 32 00

Purchaser's name in gold on any press, $25 cts. extra.

MICROCOPY RESOLUTION TEST CHART

(ANSI and ISO TEST CHART No. 2)



APPLIED IMAGE Inc
1653 East Main Street
Rochester, New York 14609 USA
(716) 482 - 0300 - Phone
(716) 288 - 5989 - Fax

IMPROVED PARAGON
COMBINED SCHOOL DESKS AND SEATS.

Ash Woods, Polished and Varnished. Japanned Castings.

Best Selected Woods, Superior Construction, and Extra Finish.

SIX SIZES:

No. 6, PRIMARY.
For Pupils of 4 to 6 years.

Top of Desk,	21¼ in. high
Front of Seat,	11 in. high
Single Desk,	18 in. long
Double Desk,	36 in. long
Width of Top,	11 in.
Space occupied,	25 in.

No. 3, INTERMEDIATE.
For Pupils of 10 to 13 years.

Top of Desk,	26½ in. high
Front of Seat,	14¾ in. high
Single Desk,	21 in. long
Double Desk,	42 in. long
Width of Top,	14 in.
Space occupied,	29 in.

No. 5, PRIMARY.
For Pupils of 5 to 8 years.

Top of Desk,	23 in. high
Front of Seat,	12¼ in. high
Single Desk,	18 in. long
Double Desk,	36 in. long
Width of Top,	12 in.
Space occupied,	26 in.

No. 2, GRAMMAR.
For Pupils of 12 to 15 years.

Top of Desk,	28¾ in. high
Front of Seat,	16 in. high
Single Desk,	24 in. long
Double Desk,	42 in. long
Width of Top,	15 in.
Space occupied,	31 in.

No. 4, INTERMEDIATE.
For Pupils of 8 to 11 years.

Top of Desk,	24½ in. high
Front of Seat,	13½ in. high
Single Desk,	21 in. long
Double Desk,	42 in. long
Width of Top,	13 in.
Space occupied,	28 in.

No. 1, HIGH SCHOOL.
For Pupils of 15 to 20 years.

Top of Desk,	30 in. high
Front of Seat,	17¾ in. high
Single Desk,	24 in. long
Double Desk,	42 in. long
Width of Top,	16 in.
Space occupied,	32 in.

Double Desk, complete as per cut. Set up or knocked down.

No.	6	5	4	3	2	1
Each,	$4 70	$4 70	$4 87	$5 06	$5 25	$5 43

Starting seats without desks $0 93 each less.

☞ Other woods, Walnut, Cherry, Maple, etc., at special figures. Single Desks, special figures.

CASTINGS ONLY, JAPANNED AND DRILLED.

	6	5	4	3	2	1
Per pair,	$1 56	$1 56	$1 75	$1 94	$2 12	$2 31

PARAGON SETTEES.

ASH WOODS. JAPANNED LEGS.

No.,	6.	5.	4.	3.	2.	1.
Height to seat,	11 in	12¼ in.	13½ in.	14¾ in	16 in.	17¼ in.

Special prices per running foot.

FULL SIZE CUT.

SCHOOL INK WELLS.

JAPANNED COVERS.

Per dozen, ... $1 50

One dozen in box.

8 in. long by 2½ in. wide.

CHURCH BOOK RACKS.

GREEN AND GOLD.

Per dozen, ... $6 00

One in package.

PUMPS.

WE devote special attention to this branch of our business. Our pumps are made with the greatest possible care, from the very best materials, and of latest designs in every style, and we *guarantee every Pump* sent out to be *perfect working* and equal in every respect to best American makes. If found defective after being put in use, we will replace *free*, and pay all charges for transportation.

On following pages of our Catalogue we illustrate the various styles of pumps we supply. Detailed descriptions are given with each design, showing manner of construction, purposes for which used, capacity, etc.

For the benefit of those not familiar with Pumps, we offer in this connection a few general remarks on the subject.

The necessary parts of a Pump are the Cylinder, Plunger, Check Valve, and Suction or Connecting Pipe; and in order that a Pump may do its work properly, all these parts should be in perfect order. The Cylinder should be bored true, and should be air-tight; and the Plunger should fit it accurately, so that it will make a vacuum as nearly perfect as possible. For cold water the Bottom or Check Valve should be made of leather or rubber, or of a combination of these materials.

The Suction Pipe is the pipe reaching from the Cylinder to the water, and to have the pump work properly should be air tight. The Suction Pipe should be about one-half the diameter of the Cylinder.

Water can not be raised *successfully* by suction more than 25 to 28 feet, although the theoretical distance is 33.94 feet. The Suction Pipe may extend horizontally almost any distance if air-tight. We recommend the use of a Check or Foot-valve with a long vertical or horizontal Suction Pipe.

Turns and Elbows are to be avoided in the Suction or Discharge Pipe, as they cause considerable friction and add to the power required to operate the Pump.

For pumping hot water or liquids, the Pump should be fitted with metal valves, and should be placed as near the supply as possible, in order to force it upward instead of raising it by suction. Hot water or liquids cannot be raised any distance by suction, as the vapor or steam rises into the Pump, instead of the liquid.

SPECIAL NOTICE.

☞ Each style of Pump, and other article represented in this section of Catalogue, will be designated by a *figure*, and each size represented by a *number*, or stated in inches.

To avoid mistakes, we particularly urge our customers, in ordering pumps, to do so always by the *Figure* and *Number*, rather than by the name of the article.

Our *Numbers* do not always agree with those of other makers, and to avoid misunderstandings as to price, size of bore and capacity per stroke should always be noted. These particulars are given with description of each Pump.

The various parts of all our Pumps are made interchangeable, and perfect fitting repairs can always be supplied. For price list of repairs see page 220.

CISTERN PUMPS.

Fig. 1.

With Brass Valve Seat, Bored and Polished Cylinder, Couplings for Iron and Lead Pipe, Bolted Base and Revolving Fulcrum.

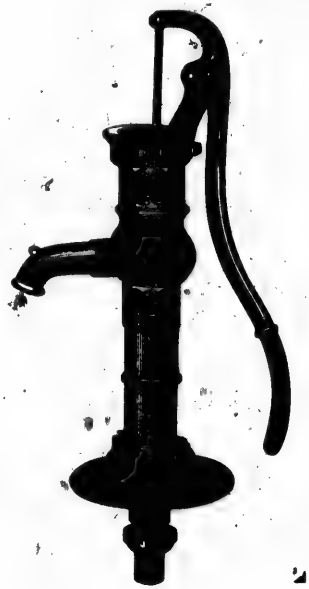


Fig. 1 represents our Long Barrel Cistern Pump. It has a strongly bolted base, with union coupling attachment below, fitted with connections to the brass valve seat for the standard gauge of iron pipe. Accompanying each Pump is also a brass tube, made to pass through the coupling-nut and arranged for soldering lead pipe, the Pump being thus adapted to either description of pipe. There is an adequate reservoir above the spout to retain any surplusage of water caused by rapid pumping, thus preventing the possibility of overflow. The Cylinder is bored uniformly round and straight, and afterwards smoothly polished throughout, causing the Pump to work with the utmost ease and efficiency. The Fulcrum and Lever revolve to any point most convenient for use by simply loosening the set-screw shown under the Lever, and by the same process the Plunger can be withdrawn from the Cylinder. By raising the Lever to highest point, lower valve can be tipped to allow water to drain from the body of Pump, rendering it anti-freezing.

PAINTED AND STRIPED.

SIZES, CAPACITIES AND PRICES:

		Each.
No. 0, 2 in. Cylinder, capacity per stroke 1-15 gal., fitted for 1 in. pipe,		$3 50
No. 1, 2¼ in. Cylinder, capacity per stroke 1-12 gal., fitted for 1 in. pipe,		4 00
No. 2, 2⅜ in. Cylinder, capacity per stroke 1-11 gal., fitted for 1 or 1¼ in. pipe,		4 50
No. 3, 2½ in. Cylinder, capacity per stroke 1-10 gal., fitted for 1¼ in. pipe,		5 00
No. 4, 3 in. Cylinder, capacity per stroke 1-6 gal., fitted for 1¼ or 1½ in. pipe,		5 50

If required for Iron Pipe *only* deduct price of Lead Pipe Coupling. Each, 25 cts.

PITCHER SPOUT CISTERN PUMPS.

COVERED TOP.

Fig. 2.

With Brass Valve Seat, Bored and Polished Cylinder, Couplings for Iron and Lead Pipe, Bolted Base and Revolving Fulcrum.

This illustrates our Improved Covered Top, New Style, Pitcher Spout Cistern Pump. It will readily be noticed that it embodies decided improvements over the Old Style Pitcher Spout Pump, as it is totally impervious to dust or other substances affecting the purity of the water, and also effectually prevents the overflow of any surplusage caused by rapid pumping. These advantages are not the only claims it possesses for superiority over the old style, as the Fulcrum is made stronger and more durable, while the design is handsome and well calculated to give satisfaction. It has a revolving top like Fig. 1, making it either right or left-handed, and is similar to that Pump in the rest of its construction. It is also anti-freezing. We make five sizes, arranged for either lead or iron pipe.

PAINTED AND STRIPED.

SIZES, CAPACITIES AND PRICES:

			Each
No. 1, 2½ in. Cylinder,	capacity per stroke 1-10 gallon,	for 1 in. pipe, . . .	$4 25
No. 2, 3 in. Cylinder,	capacity per stroke 1-7 gallon,	for 1¼ in. pipe, . . .	4 75
No. 3, 3½ in. Cylinder,	capacity per stroke 1-5 gallon,	for 1¼ in. pipe, . . .	5 25
No. 4, 4 in. Cylinder,	capacity per stroke 1-4 gallon,	for 1¼ in. pipe, . . .	5 75
No. 5, 4½ in. Cylinder,	capacity per stroke 1-3 gallon,	for 1½ in. pipe, . . .	6 25

If required for Iron Pipe only, deduct price of Lead Pipe Coupling, Each, 25 cents.

PITCHER SPOUT CISTERN PUMPS.

OPEN TOP. NEW STYLE.

Fig. 3.

With Brass Valve Seat, Bored and Polished Cylinder, Couplings for Iron and Lead Pipe, Bolted Base and Revolving Fulcrum.

This is another form of Pitcher Spout Cistern Pump, the same in all respects as FIG. 2, except that the top is entirely open instead of being partially covered as in that figure.

☞ This style is always sent when Open Top Pitcher Spout Pumps are ordered, unless FIG. 4, page 190, (the older style of this Pump) is specially asked for.

PAINTED AND STRIPED.

SIZES, CAPACITIES AND PRICES:

				Each.
No. 1, 2½	in. Cylinder,	capacity per stroke 1-10 gallon,	for 1 in. pipe,	$4 25
No. 2, 3	in. Cylinder,	capacity per stroke 1-7 gallon,	for 1¼ in. pipe,	4 75
No. 3, 3½	in. Cylinder,	capacity per stroke 1-5 gallon,	for 1¼ in. pipe,	5 25
No. 4, 4	in. Cylinder,	capacity per stroke 1-4 gallon,	for 1¼ in. pipe,	5 75
No. 5, 4½	in. Cylinder,	capacity per stroke 1-3 gallon,	for 1½ in. pipe,	6 25

If required for Iron Pipe *only*, deduct price of Lead Pipe Coupling. Each, 25 cents.

PITCHER SPOUT CISTERN PUMPS.

OPEN TOP. OLD STYLE.

Fig. 4.

With Brass Valve Seat, Bored and Polished Cylinder, Couplings for Lead and Iron Pipe, Bolted Base and Revolving Fulcrum.

This is the original style of Pitcher Spout Cistern Pump, *of which we are the only makers in Canada.* Both Top and Spout are entirely open, giving the freest possible passage to the water. Its other features are the same as those of Figs. 2 and 3.

When ordering this Pump be sure to specify Fig. 4, as when "Open Top" is the only description given, we invariably send Fig. 3, page 189.

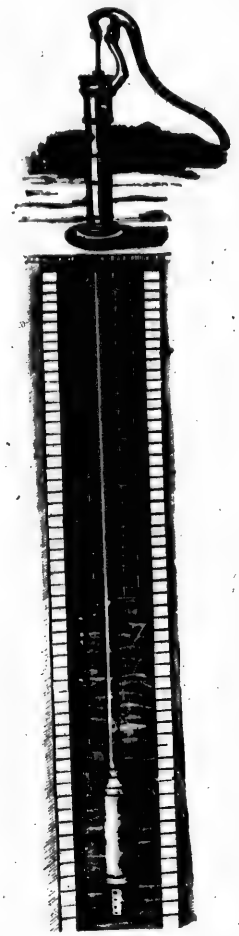
SIZES, CAPACITIES AND PRICES:

			Each.
No. 1, 2½ in. Cylinder,	capacity per stroke 1-10 gallon,	for 1 in. pipe,	$4 25
No. 2, 3 in. Cylinder,	capacity per stroke 1-7 gallon,	for 1¼ in. pipe,	4 75
No. 3, 3½ in. Cylinder,	capacity per stroke 1-5 gallon,	for 1¼ in. pipe,	5 25
No. 4, 4 in. Cylinder,	capacity per stroke 1-4 gallon,	for 1¼ in. pipe,	5 75
No. 5, 4½ in. Cylinder,	capacity per stroke 1-3 gallon,	for 1½ in. pipe,	6 25

If required for Iron Pipe *only*, deduct price of Lead Pipe Coupling. 25 cents each.

WELL PUMPS.

Fig. 7.

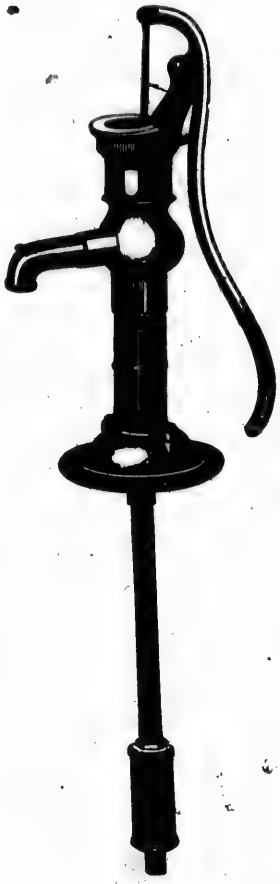


ON pages 192 to 198 we illustrate various forms of Improved Iron Well Pumps. Besides being amply strong for the work they have to do, their distinguishing features are (1) Absolute immunity from freezing, through the suspension of their working parts (Cylinder) below the surface of the ground and out of the reach of the frost, and (2) their adaptability for and efficient working in **Wells of any Depth,** attained by the movable Cylinder or working barrel, which can be placed at any depth necessary to bring the distance between its Valves and the surface of the water within the limit of atmospheric pressure. The practical limit o atmospheric pressure is (about) 28 feet, and no pump, however well constructed, can raise water by direct suction a greater height than this. IT IS THEREFORE ALL IMPORTANT THAT THE CYLINDER AND PLUNGER SHOULD NOT BE MORE THAN 28 FEET FROM THE SURFACE OF THE WATER AND TO INSURE EFFICIENT WORKING SHOULD BE WELL WITHIN THAT DISTANCE. When the well is not more than 40 feet deep, certain advantages are secured by submerging the Cylinder at bottom of well as shown in Fig. 7. The Cylinder, when entirely under water, is always primed and in good working order; works more easily and lasts longer as experience has shown. There are also fewer repairs required as a perfect (or nearly perfect) fit of the Valves is not necessary when the pump is working under water. Connection between the Cylinder and Lever is made by ½-inch round iron, or in the deeper wells by ⅜-inch Gas Pipe.

When desired we furnish the Pumps complete with Pipe and all attachments ready for placing in the well. On page 203 will be found the extra charges for this. Foot Valves with strainers, or where Cylinder is submerged, strainers only, should be used with every Pump, the Foot Valves to relieve the strain of the column of water on the Upper Valves, and thus save repairs, and the strainer to prevent possible trouble through sticks or stones, or foreign substances of any kind, getting into the Pipe. Check Valves can be placed at any point in the Suction Pipe for same purpose as Foot Valves.

ANTI-FREEZING WELL PUMPS.

Fig. 5.



OPEN TOP.

FOR WELLS 30 FEET DEEP AND UNDER.

Or by extension of set length to lower Cylinder within 28 feet of bottom, can be used successfully in Wells up to 50 feet in depth.

STANDARD, 36 inches high, has Bolted Base and Revolving Fulcrum. Painted and Striped.

SET LENGTH consists of 3 feet Wrought Iron Gas Pipe (1¼ inches interior diameter) Painted Black.

CYLINDER (see Fig. 17, page 202) is 10 inches long (inside), and of various diameters (as per price list.) Has Bored and Polished Interior and Brass Valve Seat, Fitted for Iron Pipe. Painted Black.

A small hole is drilled in Set Length just above Cylinder to allow all water above that point to drain away and prevent freezing.

SIZES, CAPACITIES AND PRICES :

Standards, Set Lengths, and Cylinders, complete as per cut.

	Each.
With 2½ in. Cylinder, capacity per stroke 1-7 gallon, for 1¼ in. pipe,	$7 75
With 2¾ in. Cylinder, capacity per stroke 1-6 gallon, for 1¼ in. pipe,	8 00
With 3 in. Cylinder, capacity per stroke 1-5 gallon, for 1¼ in. pipe,	8 50
With 3¼ in. Cylinder, capacity per stroke 1-4 gallon, for 1¼ in. pipe,	9 00

Without Set Lengths, 50 cents each less.

Extra Set Length, 1¼ in.,	per foot,	$0 25
Extra Suction Rod, Wrought Iron or Gas Pipe,	per foot,	08¼
Foot Valves and Strainers, (Fig. 20) 1¼ in.	each,	2 25
Standards only (without Set Length or Cylinder) fitted for 1¼ inch pipe,	each,	4 67

ANTI-FREEZING WELL PUMPS.

Fig. 8.

CLOSE TOP.

FOR WELLS 30 FEET DEEP AND UNDER.

Or by extension of set length as described under Fig. 5, can be used in Wells up to 50 feet in depth.

Standard, 46 inches high. Barrel screws into Base. Has Revolving Fulcrum and tight Top, which prevents the entrance of foreign matters, and keeps Pump dust and dirt proof. Painted and Striped.

Set length same as in Fig. 5.

Cylinder same as in Fig. 5.

Hole in Set Length same as in Fig. 5.

SIZES, CAPACITIES AND PRICES:

Standards, Set Lengths and Cylinders, complete as per cut.

	Each.
With 2½ in. Cyl., capacity per stroke 1-7 gal., for 1¼ in. pipe,	$8 50
With 2¾ in. Cyl., capacity per stroke 1-6 gal., for 1¼ in. pipe,	8 75
With 3 in. Cyl., capacity per stroke 1-5 gal., for 1¼ in. pipe,	9 25
With 3¼ in. Cyl., capacity per stroke 1-4 gal., for 1¼ in. pipe,	9 75

Without Set Lengths, 50 cents each less.

Extra Set Length, 1¼ inch,	per foot,	$0 25
Extra Suction Rod, Wrought Iron or Gas Pipe,	per foot,	08¼
Foot Valves and Strainers (Fig. 20) 1¼ inch,	each,	2.25
Standards only, without Set Lengths or Cylinders, fitted for 1¼ inch pipe,	each,	5 42

ANTI-FREEZING WELL PUMPS

Fig. 9.

OPEN TOP. WITH BRACE.

FOR WELLS 30 FEET DEEP AND UNDER,

Or by extension of Set Length, 50 feet and under.

Standard, 46 inches high has revolving Fulcrum. Barrel and Base are cast in one piece. Has Brace attached (as per cut) which serves to steady the Pump when in use, and prevent strain on bolts and pipe. Painted and Striped.

The **Set Length** in this Pump is attached to Standard near the Spout, instead of at base. By this means water is more quickly and easily raised, as the Stock of Pump does not require to be filled. Set Length is 3 feet from Base of Pump to Cylinder, and is made of 1¼ inch gas pipe, (as in preceding figures) painted black. The opening for pipe at Base is a close fit, and no vibration is possible.

Cylinder same as in Figures 5 and 6.

SIZES, CAPACITIES AND PRICES.

Standards, Set Lengths and Cylinders complete as per cut.

	Each.
With 2½ in. Cyl., capacity per stroke 1-7 gal., for 1¼ in. pipe,	$8 00
With 2¾ in. Cyl., capacity per stroke 1-6 gal., for 1¼ in. pipe,	8 25
With 3 in. Cyl., capacity per stroke 1-5 gal., for 1¼ in. pipe,	8 75
With 3¼ in. Cyl., capacity per stroke 1-4 gal., for 1¼ in. pipe,	9 25

With Set Length, 50 cents each less.

Extra Set Length, 1¼ in.,	per foot,	$0 25
Extra Suction Rod, Wrought Iron or Gas Pipe,	per foot,	08¼
Foot Valves and Strainers, (Fig. 20), 1¼ in.	each,	2 25
Standards only, (without Set Length or Cylinder,) fitted for 1¼ in. pipe,	each,	5 17

ANTI-FREEZING WELL PUMPS.

Fig. 10.

CLOSE TOP. WITH BRACE.

FOR WELLS 30 FEET DEEP AND UNDER.

Or by extension of Set Length, 50 feet deep and under.

Standard 46 inches high, same as in Fig. 9, with exception of Top, which in this Pump is close as in Fig. 6, under which head the uses of Close Top are explained.

Set Length same as in Fig. 9.

Cylinder same as in Figs. 5, 6, and 9.

SIZES, CAPACITIES AND PRICES.

Standards, Set Lengths and Cylinders complete as per cut.

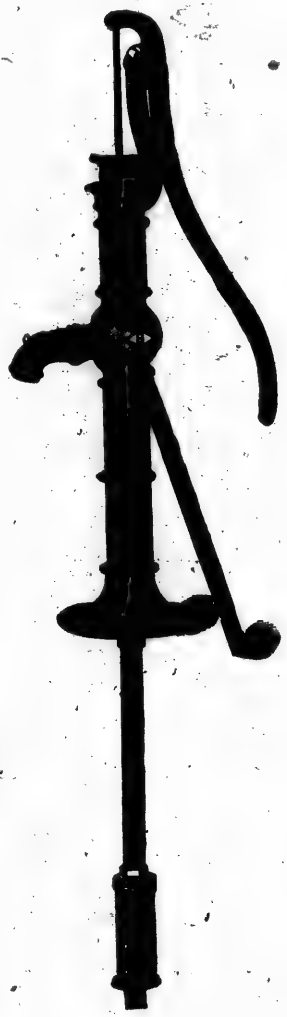
	Each.
With 2½ in. Cyl., capacity per stroke 1·7 gal., for 1¼ in. pipe,	$9 00
With 2¾ in. Cyl., capacity per stroke 1·6 gal., for 1¼ in. pipe,	9 25
With 3 in. Cyl., capacity per stroke 1·5 gal., for 1¼ in. pipe,	9 75
With 3¼ in. Cyl., capacity per stroke 1·4 gal., for 1¼ in. pipe,	10 25

Without Set Lengths, 50 cents each less.

Extra Set Length, 1¼ in.,	per foot,	$0 25
Extra Suction Rod, Wrought Iron or Gas Pipe,	per foot,	08¼
Foot Valves and Strainers (Fig. 20), 1¼ in.,	each,	2 25
Standards only (without Set Length or Cylinder,) fitted for 1¼ in. pipe,	each,	5 92

ANTI-FREEZING WELL PUMPS.

Fig. 8.



SPECIAL CUP TOP (OPEN). WITH BRACE.

FOR WELLS 30 FEET DEEP AND UNDER,

Or by extension of Set Length, 50 feet and under.

Standard 45 inches high, same as in Fig. 9, with exception of Top, which is made with cup for convenience in priming, and Fulcrum which is slightly higher.

Set Length same as in Figs. 9 and 10.

Cylinder same as in Figs. 5, 6, 9 and 10.

SIZES, CAPACITIES AND PRICES:

Standards, Set Lengths and Cylinders complete as per cut.

	Each.
With 2½ in. Cyl., capacity per stroke 1-7 gal., for 1¼ in. pipe,	$8 25
With 2¾ in. Cyl., capacity per stroke 1-6 gal., for 1¼ in. pipe,	8 50
With 3 in. Cyl., capacity per stroke 1-5 gal., for 1¼ in. pipe,	9 00
With 3¼ in. Cyl., capacity per stroke 1-4 gal., for 1¼ in. pipe,	9 50

Without Set Lengths, 50 cents each less.

Extra Set Length, 1¼ in.,	per foot,	$0 25
Extra Suction Rod, Wrought Iron or Gas Pipe,	per foot,	08¼
Foot Valves and Strainers, (Fig. 20), 1¼ in.	each,	2 25
Standards only (without Set Length or Cylinder,) fitted for 1¼ in. pipe,	each.	5 17

ANTI-FREEZING

WELL PUMPS.

Fig. 11.

OPEN TOP. WITH BRACE.

FOR WELLS 100 FEET DEEP AND UNDER

Standard, 48 inches high, extra heavy and strong; has revolving Fulcrum; Barrel and Base all one piece; Nut close to Spout for attaching Set Length same as Figs. 8, 9 and 10: and Brace. Painted and Striped.

Cylinders (see Figs. 18 and 19, page 202), either 14 or 18 inches long as preferred, and any diameter from 2 to 4 inches. Have bored and polished interiors, and Brass Valve Seats. Fitted for iron pipe. Painted black.

Set Lengths for these Pumps, of length suitable to depth of well, can be made from 1½ inch Gas Pipe, for which Stock of Pump and Upper Coupling of Cylinder are fitted.

PRICES:

	Each.
Standard and any size Cylinder (no Set Length), for 1½ in. Iron Pipe.,	$14 00
Standard only (for 1½ in. pipe),	9 00

Without Brace, 50 cents less.

Gas Pipe for Set Lengths, 1½ in.,	per foot,	$0 30
Suction Rod, (Wrought Iron or Gas Pipe),	per foot,	08¼
Foot Valves and Strainers (Fig. 20,) 1½ in.	each,	2 50

☞ Capacity per stroke of all Cylinders used with this Pump is given on page 202.

ANTI-FREEZING

WELL PUMPS.

Fig. 12.

CLOSE TOP. WITH BRACE.

FOR WELLS 100 FEET DEEP AND UNDER.

Standards, 48 inches high, (same as in Fig. 11), except top, which is *close*, as in Fig. 10.

Cylinders and Set Lengths same as Fig. 11.

PRICES:

Standard and any size Cylinder, (no Set Length) for 1½ in. pipe, each,	$16 00
Standard only (for 1½ in. pipe),	11 00

Without Brace, 50 cents less.

Gas Pipe for Set Lengths, 1½ in., per foot,	$0 30
Suction Rod, Wrought Iron or Gas Pipe, per foot,	08¼
Foot Valves and Strainers (Fig. 20), 1½ in., each,	$2 50

☞ For capacity per stroke of Cylinders see page 202.

ENGINE WELL PUMPS.

ANTI-FREEZING.

Fig. 18.

FOR WELLS 30 FEET DEEP AND UNDER.

Or by extension of Set Length, 50 feet and under.

Combined Lift and Force Pump, complete with Air Chamber and Coupling at Spout for Hose. Will throw a steady stream of good dimensions from Hose or force water in any direction through pipes. May be used as an ordinary Lift Pump by unscrewing cap on Air Chamber.

Standard, 44 inches high. Barrel Screws into Base, which is fitted to receive 1¼ inch pipe. Revolving Fulcrum. Brass Stuffing Box and polished connecting rod. Painted and Striped.

Set Length consists of 3 feet Wrought Iron Gas Pipe, 1¼ inch, with hole at bottom to allow water to drain away and prevent freezing. Painted Black. Additional Set Length must be used with Wells deeper than 30 feet.

Cylinder (see Fig. 17, page 202) is 10 inches long (inside), and of various diameters (as per price list), with Bored and Polished Interior and Brass Valve Seat. Fitted for 1¼ inch Iron Pipe. Painted Black.

SIZES, CAPACITIES AND PRICES.

Standards, Set Lengths and Cylinders complete as per cut.

		Each.
With 2¾ inch Cylinder, capacity per stroke 1-6 gal., for 1¼ in. pipe,		$13 00
With 3 inch Cylinder, capacity per stroke 1-5 gal., for 1¼ in. pipe,		13 50
With 3¼ inch Cylinder, capacity per stroke 1-4 gal., for 1¼ in. pipe,		14 00
With 3½ inch Cylinder, capacity per stroke 1-3 gal., for 1¼ in. pipe,		14 50

With 3 feet Rubber Hose (1 in.) and Brass Nozzle, $3.00 extra.

Extra Set Length, 1¼ in.,	per foot,	$0 25
Extra Suction Rod, Wrought Iron or Gas Pipe,	per foot,	08¼
Foot Valves and Strainers, (Fig. 20), 1¼ in.,	each,	2 25
Standards only (without Set Length or Cylinder),	each,	9 92

ENGINE WELL PUMPS.

ANTI-FREEZING.

Fig. 14.

COMBINED LIFT AND FORCE PUMP.

FOR WELLS 36 FEET DEEP AND UNDER,

Or by extension of Set Length, 50 feet deep and under.

In these Pumps the Stock and Air Chamber are both cast in one piece with a tub extending downward through the latter, which forms a guide for piston rod and prevent escape of air from Air Chamber. When used as ordinary Lift Pump, set screw in Air Chamber should be removed.

Standard, 51 inches high. Barrel, Base, and Air Chamber all one piece. Has Revolving Fulcrum, Brass Stuffing Box, and Polished Piston Rod, Coupling at Spout for Hose, and Brace. Fitted for 1¼ inch pipe. Painted and Striped.

☞ Set Length and Cylinder same as for Fig. 15.

SIZES CAPACITIES AND PRICES:

Standards, Set Lengths and Cylinders, complete as per cut.

With 2¾ in. Cyl., capacity per stroke 1-6 gal., for 1¼ in. pipe,		$13 00
With 3 in. Cyl., capacity per stroke 1-5 gal., for 1¼ in. pipe,		13 50
With 3¼ in. Cyl., capacity per stroke 1-4 gal., for 1¼ in. pipe,		14 00
With 3½ in. Cyl., capacity per stroke 1-3 gal., for 1¼ in. pipe,		14 50

With 3 feet Rubber Hose (1 in.) and Brass Nozzle, $3.00 extra.

Extra Set Length, 1¼ in.,	per foot,	$0 25
Extra Suction Rod, Wrought Iron or Gas Pipe,	per foot,	08¼
Foot Valves and Strainers (Fig. 29), 1¼ in.,	each,	2 25
Standards only, without Set Length or Cylinder, fitted for 1¼ in. pipe,	each,	9 92

ENGINE WELL PUMPS.

ANTI-FREEZING.

Fig. 16.

FOR WELLS 100 FEET DEEP AND UNDER.

When used for lifting only, unscrew Cap on Air Chamber.

Standard, 46 inches high. Barrel and Base in one piece. Has Revolving Fulcrum, Polished Piston Rod, Brass Stuffing Box and Brace.

PAINTED AND STRIPED.

For Cylinders used with this Pump, see Figs. 18 and 19, page 202. All diameters may be used.

Set Length to be made of 1½ inch Gas Pipe of length suitable to depth of Well. Small hole must be drilled in same just above Cylinder to render anti-freezing.

This Pump can be used as Lift Pump only, or as combined Lift and Force Pump, to force water in any direction, or throw a stream of good dimensions from Hose.

SIZES, CAPACITIES AND PRICES:

Standard, Cylinder, 3 ft. Hose, and Nozzle, complete as per cut.

With 3 in. Cyl., capacity per stroke 3-10 gal., for 1½ in. pipe,	each,	$20 00
With 4 in. Cyl., capacity per stroke 2-3 gal., for 1½ in. pipe,	each,	21 00
Set Length, 1½ in., per foot,	extra,	30
Connecting Rod, per foot,	extra,	$ 0 08¼
Foot Valves and Strainers, 1½ in.,	each,	2 50
Without Hose or Nozzle, deduct,		3 00
Standard only, with Hose and Nozzle,		15 38
Standard only, without Hose and Nozzle,		12 38

WELL PUMP CYLINDERS.

FIG. 17.

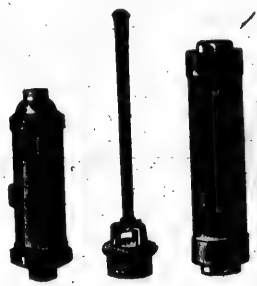


FIG. 18.

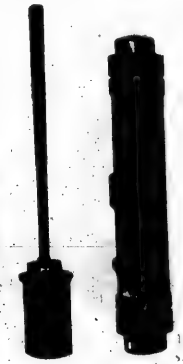


FIG. 19.

All have Bored and Polished interiors. Painted Black. Fitted for 1¼ or 1½ inch pipe, as ordered. When ordering, please give *diameter*, *length* and *size of pipe coupling* wanted.

Any of these Cylinders can be furnished perfectly smooth outside (without bands) for drilled wells, at regular prices.

SIZES, CAPACITIES AND PRICES:

Fig. 17. With 2¼ inch Plunger:

Diameter (inside).	Length (inside).	Capacity per stroke. (approximate).	Each.
2½ inches,	10 inches,	1·7 gallon,	$ 4 35
2¾ inches,	10 inches,	1·6 gallon,	4 70
3 inches,	10 inches,	1·5 gallon,	5 00
3¼ inches,	10 inches,	1·4 gallon,	5 30
3½ inches,	10 inches,	1·3 gallon,	5 60
4 inches,	10 inches,	2·5 gallon,	6 25

Fig. 18. With 3¼ inch Plunger:

Diameter (inside).	Length (inside).	Capacity per stroke. (approximate).	Each.
2½ inches,	14 inches,	1·5 gallon,	$ 6 50
2¾ inches,	14 inches,	1·4 gallon,	7 00
3 inches,	14 inches,	3·10 gallon,	7 50
3¼ inches,	14 inches,	5·16 gallon,	8 00
3½ inches,	14 inches,	2·5 gallon,	8 50
4 inches,	14 inches,	3·5 gallon,	10 00

Fig. 18. Has 7-inch Plunger, with an Iron Follower 5 inches long, cut with water grooves. Will work perfectly with or without leather packing.

Diameter (inside).	Length (inside).	Capacity per stroke. (approximate).	Each.
2 inches.	18 inches,	1·6 gallon,	$ 6 50
2¼ inches,	18 inches,	1·5 gallon,	7 00
2½ inches,	18 inches,	1·4 gallon,	7 50
2¾ inches,	18 inches,	3·10 gallon,	8 00
3 inches,	18 inches,	3·8 gallon,	8 50
3¼ inches,	18 inches,	7·16 gallon,	9 00
3½ inches,	18 inches,	1·2 gallon,	9 50
4 inches,	18 inches,	2·3 gallon,	10 50

Any of above can be supplied with Brass Bodies, Iron Caps, at special figures.

FOOT VALVES.

WITH STRAINERS.

Fig. 20.

Fitted with Couplings for Wrought Iron Pipe. Should be used with all Well Pumps at bottom of Suction Pipe to relieve the pressure on the upper Valves, and maintain the column of water at the proper height to enable the Pumps to act promptly. Strainers only should be used when Cylinder is at bottom of Well.

SIZES AND PRICES:

	Each.
Fig. 20, complete, for 1 inch pipe,	$2 00
Fig. 20, complete, for 1¼ inch pipe,	2 25
Fig. 20, complete, for 1½ inch pipe,	2 50
Fig. 20, complete, for 2 inch pipe,	3 00
Fig. 20, Strainers only, 1 inch pipe,	35
Fig. 20, Strainers only, 1¼ inch pipe,	35
Fig. 20, Strainers only, 1½ inch pipe,	35
Fig. 20, Strainers only, 2 inch pipe,	50

CHECK VALVES.

Fig. 21.

For inserting in the Suction Pipe at any point in its length to serve same purpose as Foot Valve.

SIZES AND PRICES:

	Each.
Fig. 21, for 1 inch pipe,	$1 50
Fig. 21, for 1¼ inch pipe,	1 75
Fig. 21 for 1½ inch pipe,	2 00
Fig. 21. for 2 inch pipe,	2 25

IRON GAS PIPE FOR WELL PUMPS.

Cut and Fitted.

	1¼ in.	1½ in.	2in.
Per foot,	$0 15	$0 18	$0 25

EXTRA SUCTION ROD.

Half-inch Round Iron, or ½ inch Gas Pipe.

Per foot,	$0 05

HOUSE FORCE PUMPS.

On Base. Without Air Chamber. One Discharge.

Fig. 28.

With Bored and Polished Cylinder, Bolted Base, Revolving Fulcrum, Brass Stuffing Box and Valve Seat, Polished Piston Rod, and Coupling for Iron and Lead Pipe.

☞To trip Valve and prevent freezing, raise Lever to extreme height.

PAINTED AND STRIPED.

SIZES, CAPACITIES AND PRICES:

2½ inch Bore, capacity per stroke ⅛ gallon, for 1¼ inch pipe,	each,	$ 9 50
3 inch Bore, capacity per stroke ⅙ gallon, for 1¼ or 1½ inch pipe,	each,	11 00

HOT WATER FORCE PUMPS.

FOR CHEESE FACTORIES, ETC.

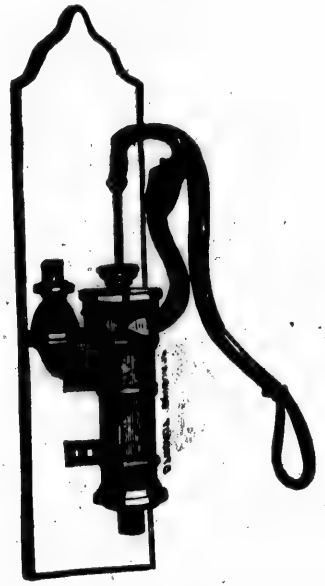
Same as above, with Brass Valves.

2½ inch Bore, capacity per stroke ⅛ gallon, for 1¼ inch pipe,	each,	$11 50
3 inch Bore, capacity per stroke ⅙ gallon, for 1¼ or 1½ inch pipe,	each,	13 00

HOUSE FORCE PUMPS.

On Plank. Without Air Chamber. One Discharge.

Fig. 30.



With Bored and Polished Cylinder, Revolving Fulcrum, Brass Stuffing Box and Valve Seat, Polished Piston Rod, and Coupling for Lead and Iron Pipe. Mounted on Plank.

To trip Valve and prevent freezing, raise Lever to its extreme height.

PAINTED AND STRIPED.

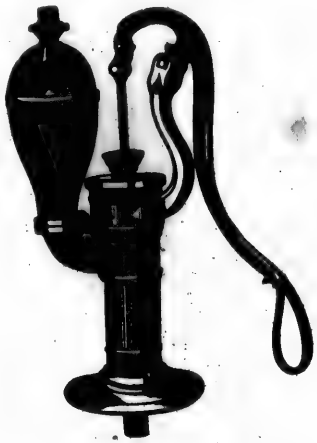
SIZES, CAPACITIES AND PRICES:

2½ inch Bore, capacity per stroke ⅛ gallon, for 1¼ inch pipe,	each, $ 9 50
3 inch Bore, capacity per stroke ⅙ gallon, for 1¼ or 1½ inch pipe,	each, 11 00
With Brass Valves for hot water, 2½ inch Bore,	each, 11 50
With Brass Valves for hot water, 3 inch Bore,	each, 13 00

HOUSE FORCE PUMPS.

On Base. With Air Chamber. One Discharge.

Fig. 26.



Same as Fig. 25, with addition of Air Chamber, which regulates the pressure and insures a steady and continuous stream.

PAINTED AND STRIPED.

SIZES, CAPACITIES AND PRICES:

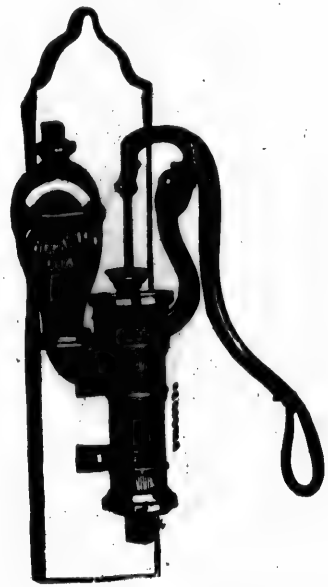
2½ inch Bore, capacity per stroke ⅛ gallon, for 1¼ inch pipe	each,	$10 00
3 inch Bore, capacity per stroke ⅛ gallon, for 1¼ or 1½ inch pipe,	each,	12 00

Fitted for Iron and Lead Pipe.

HOUSE FORCE PUMPS.

On Plank. With Air Chamber. One Discharge.

Fig. 31.



Same as Fig. 30, with addition of Air Chamber.

PAINTED AND STRIPED.

SIZES, CAPACITIES AND PRICES:

2½ inch Bore, capacity per stroke ⅛ gallon, for 1¼ inch pipe, . . each, $10 00
3 inch Bore, capacity per stroke ⅙ gallon, for 1¼ or 1½ inch pipe, each, 12 00

Fitted for Iron and Lead Pipe.

HOUSE FORCE PUMPS

On Base. With Air Chamber. Two Discharges.

Fig. 27.

Same as Fig. 26, with addition of second discharge (horizontal) enabling the Pump to force water in two directions.

PAINTED AND STRIPED.

SIZES, CAPACITIES AND PRICES.

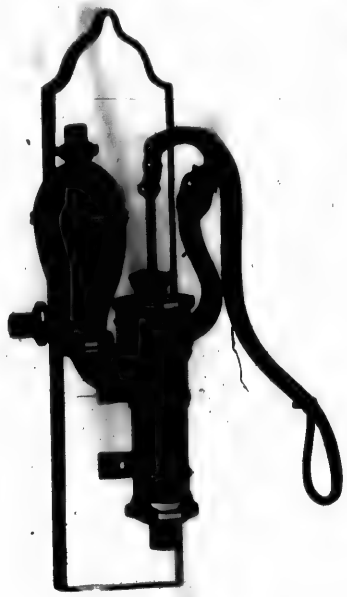
2½ inch Bore, capacity per stroke ⅛ gallon, for 1¼ inch pipe,	each,	$11 00
3 inch Bore, capacity per stroke ⅙ gallon, for 1¼ or 1½ inch pipe,	each,	13 00

Fitted for Iron and Lead Pipe.

HOUSE FORCE PUMPS.

On Plank. With Air Chamber. Two Discharges.

Fig. 32.



Same as Fig. 31, with addition of horizontal discharge. To force in two directions.

PAINTED AND STRIPED.

SIZES, CAPACITIES AND PRICES:

2½ inch Bore, capacity per stroke, ⅛ gallon, for 1¼ inch pipe,	each,	$11 00
3 inch Bore, capacity per stroke, ⅛ gallon, for 1¼ or 1½ inch pipe,	each,	13 00

Fitted for Lead and Iron pipe.

HOUSE FORCE PUMPS.

On Base. With Air Chamber. Two Discharges and Cock.

Fig. 28.

Same as Fig. 27, with Cock attached to lower outlet. Cock is of Iron, with Brass Plug, and has thread cut for 1 in. Hose Coupling.

PAINTED AND STRIPED.

SIZES, CAPACITIES AND PRICES:

2½ inch Bore, capacity per stroke ⅛ gallon, for 1¼ inch pipe,	each,	$12 50
3 inch Bore, capacity per stroke ⅙ gallon, for 1¼ or 1½ inch pipe,	each,	14 50

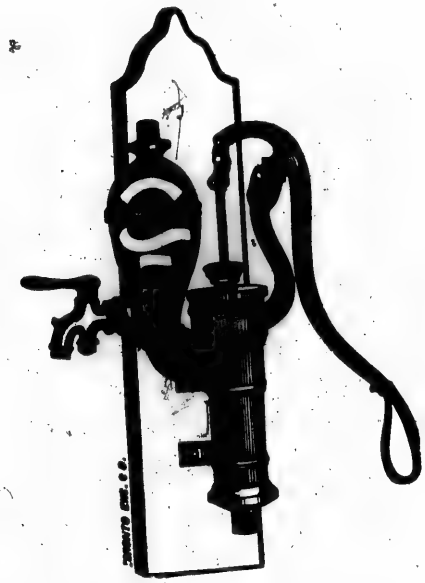
Fitted for Lead and Iron Pipe.

☞ Three feet Rubber Hose and Brass Discharge Pipe, fitted to attach to Cock, $3 00 extra.

HOUSE FORCE PUMPS.

On Plank. With Air Chamber. Two Discharges and Cock.

Fig. 38.



* Same as Fig. 32, with Cock attached to lower outlet. Cock is of iron, with Brass Plug, and has thread cut for 1 inch Hose Coupling.

PAINTED AND STRIPED.

SIZES, CAPACITIES AND PRICES:

2½ inch Bore, capacity per stroke ⅛ gallon, for 1¼ inch pipe,	each,	$12 50
3 inch Bore, capacity per stroke ⅙ gallon, for 1¼ or 1½ inch pipe,	each,	14 50

Fitted for Lead and Iron Pipe.

☞ Three feet Rubber Hose and Brass Discharge Pipe, fitted to attach to Cock, $3.00 extra.

HOUSE FORCE PUMPS.

On Base. With Air Chamber. One Discharge.

COMPLETE WITH HOSE AND NOZZLE.

Fig. 29.

Same as Fig. 28, with Cap on Air Chamber substituted for vertical outlet, and Goose Neck Coupling and 3 feet Hose and Brass discharge Pipe in place of Cock.

☞ May be used as an ordinary Cistern Pump by unscrewing Cap on Air Chamber.

PAINTED AND STRIPED.

SIZES, CAPACITIES AND PRICES:

2½ inch Bore, capacity per stroke ⅛ gallon, for 1¼ inch pipe,	each, $15 00
3 inch Bore, capacity per stroke ⅙ gallon, for 1¼ or 1½ inch pipe,	each, 16 00

Without Hose and Discharge Pipe, $3.00 less. Extra Hose, per foot, 33 cents.

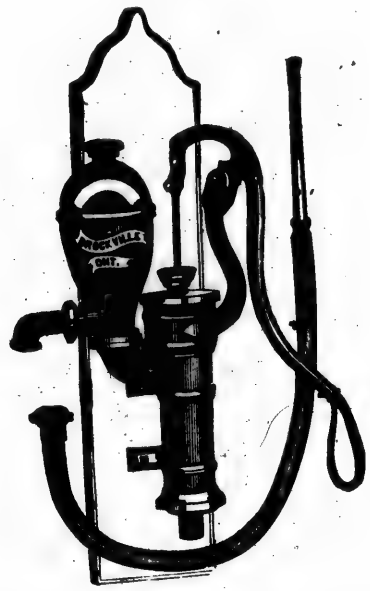
Fitted for Lead and Iron Pipe.

HOUSE FORCE PUMPS.

On Plank. With Air Chamber. One Discharge.

COMPLETE WITH HOSE AND NOZZLE.

Fig. 34.



Side Force Pump with same attachm ts as Fig. 29.

PAINTED AND STRIPED.

SIZES, CAPACITIES AND PRICES:

2½ inch Bore, capacity per stroke ⅛ gallon, for 1¼ inch pipe,	each,	$15 00
3 inch Bore, capacity per stroke ⅙ gallon, for 1¼ or 1½ inch pipe,	each,	16 00

Without Hose and Discharge Pipe, $3.00 less. Extra Hose, per foot, 33 cents.

Fitted for Lead and Iron Pipe.

HOUSE FORCE PUMPS.

On Plank. Without Air Chamber. One Discharge.

Fig. 35.

SPECIAL PATTERN.

With longer stroke and greater capacity than Figs. 30 to 34. Has Brass Piston Rod, Stuffing Box and Connecting Tubes, Bored and Polished Cylinder. Mounted on plank, for either right or left hand, as ordered.

PAINTED AND STRIPED.

Fitted for Lead and Iron Pipe.

Fig. 35 is made without Air Chamber for the convenience of those who wish to make their own Air Chambers of polished copper or other expensive metals.

SIZES, CAPACITIES AND PRICES:

	Each.
2½ in. Bore, capacity per stroke ⅙ gal., for 1¼ in pipe,	$15 00
3 in. Bore, capacity per stroke ¼ gal., for 1¼ or 1½ in. pipe,	16 50
2½ in. Bore, with Brass Valves for hot water,	$17 00
3 in. Bore, with Brass Valves for hot water,	18 50
2½ in. Bore, with Brass Cylinder,	$20 00
3 in. Bore, with Brass Cylinder,	22 00

All Brass, at special figures,

HOUSE FORCE PUMPS.

On Plank. With Air Chamber. One Discharge.

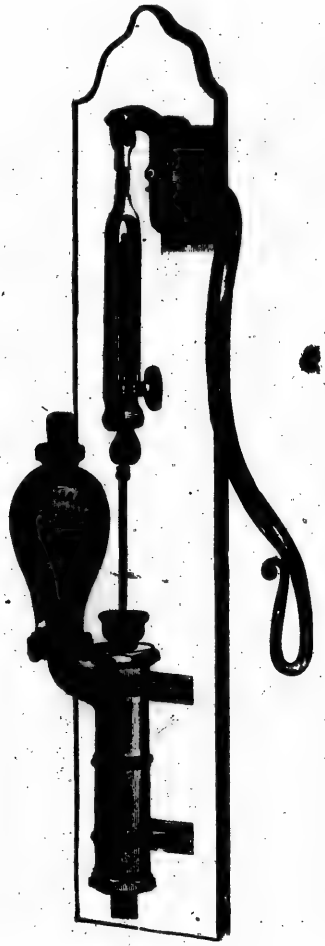


Fig. 38.

Same as Fig. 35, with addition of Air Chamber, having vertical discharge at top.

PAINTED AND STRIPED.

Fitted for Iron and Lead Pipe.

Mounted for right or left hand, as ordered.

SIZES, CAPACITIES AND PRICES:

	Each.
2½ in. Bore, capacity per stroke ⅛ gal., for 1¼ in. pipe,	$17 00
3 in. Bore, capacity per stroke ¼ gal., for 1¼ or 1½ in. pipe,	18 50
2½ inch Bore, with Brass Valves for hot water,	$19 00
3 inch Bore, with Brass Valves for hot water,	20 50
2½ inch Bore, with Brass Cylinder,	23 00
3 inch Bore, with Brass Cylinder,	25 00

All Brass, at special figures.

HOUSE FORCE PUMPS.

On Plank. With Air Chamber. Two Discharges and Cock.

Fig. 37.

Same as Fig. 36, with addition of Horisontal Outlet, with Cock attached to same. Cock is threaded for Hose Coupling.

PAINTED AND STRIPED.

Fitted for Iron and Lead Pipe.

Mounted for right or left hand as ordered.

SIZES, CAPACITIES AND PRICES.

2½ in. Bore, capacity per stroke ⅙ gallon, for 1¼ in. pipe,	$19 50
3 in. Bore, capacity per stroke ¼ gallon, for 1¼ or 1½ in. pipe,	21 00

2½ in. Bore, with Brass Valves for hot water,	each,	$21 50
3 in. Bore, with Brass Valves for hot water,	each,	23 00

2½ in. Bore, with Brass Cylinder,	each,	$25 50
3 in. Bore, with Brass Cylinder,	each,	27 50

All Brass, at special figures.

FORCE PUMP COCKS.

Fig. 88.

HALF SIZE CUT.

Cast Iron, with Brass Plug and Brass Tail Piece for coupling inch Hose at mouth.

Complete as per cut,	each, $3 25
Without Tail Piece, threaded for Hose Coupling,	each, 3 00

GOOSE NECK COUPLINGS.

Fig. 89.

FOR USE WITH FORCE PUMPS.

Threaded for 1 inch Hose Coupling, and with coupling for attaching to Pump.

Each, ... $0 40

RUBBER HOSE.

FOR FORCE PUMPS.

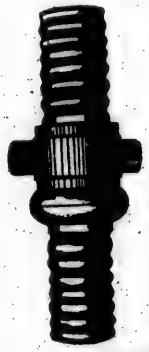
PRICES PER FOOT:

	¾ inch.	1 inch	1¼ inch.
Two Ply,	$0 25	$0 33	$0 42
Three Ply,	30	40	50

BRASS DISCHARGE PIPES

Fig. 40.

¾ in. diameter,	per dozen, $10 00
1 in. diameter,	per dozen, 12 00
1¼ in. diameter,	per dozen, 20 00



BRASS HOSE COUPLINGS.

Fig. 41.

For Hose, ¾ in. diameter,	per dozen, $ 5 00
For Hose, 1 in. diameter,	per dozen, 10 00
For Hose, 1¼ in. diameter,	per dozen, 20 00

HOSE REELS.

Fig. 42.

Absolutely Necessary to keep Hose in Good Condition.

MOUNTED ON WHEELS.

Each, $2 00

PUMP REPAIRS.

Sectional Views of Cistern and Pitcher Spout Pumps.

FIG. 43.

A—Lever.
B—Fulcrum.
C—Plunger.
D—Cylinder.
E—Lower Valve.
F—Brass Tube.
G—Base.

FIG. 44.

A—Lever.
B—Fulcrum.
C—Plunger.
D—Cylinder.
E—Base Set Screw.
F—Lower Valve.
G—Brass Tube.
H—Base.
I—Coupling for Iron Pipe.

For convenience of customers ordering repairs, we show above view of the different parts of a Cistern and Pitcher Spout Pump. Price List of parts will be found on following pages.

To avoid possible errors, always order pieces wanted by the names in Price List.

PRICE LIST OF PUMP REPAIRS.

Levers or Handles.

	Each.
Cistern Pumps, Fig. 1, Nos. 0, 1 and 2	$0 50
Cistern Pumps, Fig. 1, No. 3,	60
Cistern Pumps, Fig. 1, No. 4,	70
Pitcher Pumps, Figs. 2, 3 and 4, Nos. 1, 2, and 3,	50
Nos. 4 and 5,	75
Anti-Freezing Well Pumps, Figs. 5 and 6,	75
Anti-Freezing Well Pumps, Figs. 8, 9 and 10,	75
Deep Well Pumps, Figs. 11 and 12,	$1 50
Engine Well Pumps, Fig. 14,	1 25
Engine Well Pumps, Fig. 15,	1 25
Engine Well Pumps, Fig. 16,	1 50
Base Force Pumps, Figs. 25 to 29	1 00
Side Force Pumps, Figs. 30 to 34,	1 00
Side Force Pumps, Figs. 35 to 37,	2 00

Fulcrums or Tops.

	Each.
Cistern Pumps, Fig. 1, Nos. 0, 1 and 2,	$0 70
Cistern Pumps, Fig. 1, No. 3,	75
Cistern Pumps, Fig. 1, No. 4,	80
Pitcher Pumps, Figs. 2 and 3, Nos. 1 and 2,	40
Pitcher Pumps, Figs. 2 and 3, Nos. 3 and 4,	50
Pitcher Pumps, Figs. 2 and 3, No. 5,	60
Pitcher Pumps, Fig. 4, Nos. 1 and 2,	60
Pitcher Pumps, Fig. 4, Nos. 3 and 4,	80
Pitcher Pumps, Fig. 4, No. 5,	1 00
Anti-Freezing Well Pumps, Fig. 5,	75
Anti-Freezing Well Pumps, Fig. 6,	1 25
Anti-Freezing Well Pumps, Fig. 8,	$1 00
Anti-Freezing Well Pumps, Fig. 9,	1 00
Anti-Freezing Well Pumps, Fig. 10,	1 25
Anti-Freezing Well Pumps, Fig. 11,	1 25
Anti-Freezing Well Pumps, Fig. 12,	1 50
Engine Well Pumps, Fig. 14,	1 25
Engine Well Pumps, Fig. 15,	1 25
Engine Well Pumps, Fig. 16,	1 50
Base Force Pumps, Figs 25 to 29,	1 00
Side Force Pumps, Figs. 30 to 34,	1 00
Side Force Pumps, Figs. 35 to 37,	1 50

Plungers, with Rods.

	Each.
Cistern Pumps, Fig. 1, No. 0,	$0 70
Cistern Pumps, Fig. 1, No. 1,	75
Cistern Pumps, Fig. 1, No. 2,	80
Cistern Pumps, Fig. 1, No. 3,	90
Cistern Pumps, Fig. 1, No. 4,	1 00
Pitcher Spout Pumps, Figs. 2, 3 and 4, No. 1,	$0 75
Pitcher Spout Pumps, Figs. 2, 3 and 4, No. 2,	80
Pitcher Spout Pumps, Figs. 2, 4 and 4, No. 3,	90
Pitcher Spout Pumps, Figs. 2, 3 and 4, No. 4,	1 00
Pitcher Spout Pumps, Figs. 2, 3 and 4, No. 5,	1 25

Plungers Only. No Rods.

For Well Pump Cylinders.

Inch,	2½	2¾	3	3¼	3½	4
Fig. 17, Shallow Well,	$2 10	$2 10	$2 30	$2 45	$2 70	$3 20
Fig. 18, Medium Well,	2 25	2 40	2 50	2 60	2 75	3 30
Fig. 19, Deep Well,	2 45	2 70	2 95	3 20	3 45	3 95

PRICE LIST OF PUMP REPAIRS.

(Continued.)

Plungers Only. No Rods.

Base and Side Force Pumps, Figs. 25 to 34,	each, $1 00
Side Force Pumps, Figs. 35 to 37,	each, 1 00

Stocks or Barrels.

	Each.		Each.
Cistern Pumps, Fig. 1, Nos. 0 and 1,	$1 25	Anti-Freezing Well Pumps, Figs. 5 and 6,	$2 00
Cistern Pumps, Fig 1, No. 2,	1 50	Anti-Freezing Well Pumps, Figs. 8, 9 and 10,	2 50
Cistern Pumps, Fig. 1, No. 3,	1 75	Anti-Freezing Well Pumps, Figs. 11 and 12,	3 00
Cistern Pumps, Fig. 1, No. 4,	2 00	Engine Well Pumps, Fig. 14,	6 00
Pitcher Pumps, Figs. 2, 3 and 4, No. 1,	1 50	Engine Well Pumps, Fig. 15,	5 00
Pitcher Pumps, Figs. 2, 3 and 4, No. 2,	1 75	Engine Well Pumps, Fig. 16,	6 00
Pitcher Pumps, Figs. 2, 3 and 4, No. 3,	2 00	Base Force Pumps, Figs. 25 to 29,	3 00
Pitcher Pumps, Figs. 2, 3 and 4, No. 4,	2 25	Side Force Pumps, Figs. 30 to 34,	3 00
Pitcher Pumps, Figs. 2, 3 and 4, No. 5,	2 50	Side Force Pumps, Figs. 35 to 37,	3 00

Bases or Bottoms.

	Each.		Each.
Cistern Pumps, Fig. 1, Nos. 0, 1 and 2,	$0 75	Pitcher Pumps, Figs. 2, 3 and 4, No. 4,	$1 50
Cistern Pumps, Fig. 1, No. 3,	85	Pitcher Pumps, Figs. 2, 3 and 4, No. 5,	1 75
Cistern Pumps, Fig. 1, No. 4,	1 00	Anti-Freezing Well Pumps, Figs. 5 and 6,	1 00
Pitcher Pumps, Figs. 2, 3 and 4, No. 1,	1 00	Engine Well Pumps, Fig. 15,	1 25
Pitcher Pumps, Figs. 2, 3 and 4, No. 2,	1 10	Engine Well Pumps, Fig. 16,	1 50
Pitcher Pumps, Figs. 2, 3 and 4, No. 3,	1 25	Base Force Pumps, Figs. 25 to 29,	1 00

Lower Valves.

Cistern Pumps, Fig. 1, all sizes,	each, $0 25
Pitcher Pumps, Figs. 2, 3 and 4, all sizes,	each, 35
Well Pumps, Figs. 5 to 10, all sizes,	each, 25
Well Pumps, Figs. 11 and 12, all sizes,	each, 35
Engine Well Pumps, Figs. 14 and 15, all sizes,	each, 30
Engine Well Pumps, Fig. 16, all sizes,	each, 35
Force Pumps, Figs. 25 to 37,	each, 25

PRICE LIST OF PUMP REPAIRS

(Continued.)

Brass Valve Seats.

Cistern Pumps, Fig. 1, all sizes,	each, $0 75
Pitcher Pumps, Figs. 2, 3, and 4, No. 1,	each, 75
Pitcher Pumps, Figs. 2, 3, and 4, No. 2,	each, 90
Pitcher Pumps, Figs. 2, 3, and 4, No. 3,	each, 1 10
Pitcher Pumps, Figs. 2, 3, and 4, No. 4,	each, 1 20
Pitcher Pumps, Figs. 2, 3, and 4, No. 5,	each, 1 30
Base and Side Force Pumps, all Figs., 2½ inch Cylinder,	each, 1 00
Base and Side Force Pumps, all Figs., 3 inch Cylinder,	each, 1 25

Brass Soldering Tubes for Lead Pipe.

For 1 and 1¼ inch pipe,	each, $0 50
For 1½ inch pipe,	each, 75
For 2 inch pipe,	each, 1 00

Cylinder Caps Top.

Shallow Well Cylinders, Fig. 17,	each, $0 50
Medium and Deep Well Cylinders, Figs. 18 and 19,	each, 75

Cylinder Caps Bottom.

Shallow Well Cylinders, Fig. 17,	each, $0 75
Medium and Deep Well Cylinders, Figs. 18 and 19,	each, 90

Cylinder Bodies.

Diameter.	2½ in.	2¾ in.	3 in.	3¼ in.	3½ in.	4 in.
Shallow, Fig. 17,	each, $1 60	$1 80	$2 00	$2 25	$2 50	$3 25
Medium, Fig. 18,	each, 2 50	2 70	3 00	3 25	3 55	4 10
Deep, Fig. 19,	each, 3 35	3 75	4 00	4 30	4 60	4 90

Caps and Stuffing Boxes.

Base and Side Force Pumps, Figs. 25 to 34, all sizes,	each, $1 50
Side Force Pumps, Figs. 35 to 37, all sizes,	each, 1 50
Engine Well Pumps, Figs. 14, 15, and 16,	each, 1 50

Air Chambers.

Engine Well Pumps, Fig. 15,	each, $2 50
Engine Well Pumps, Fig. 16,	each, 3 00
Base and Side Force Pumps, all figures and sizes,	each, 2 00

Spouts, Fig. 14,	each, $0 50
Braces,	each, 50
Set Screws and Bolts,	each, 08
Crossheads for Force Pumps and Close Top Well Pumps,	each, 50
Brass or Polished Iron Connecting Rods for Force Pumps,	each, 1 00

Iron Pipe Nuts for Cistern and Pitcher Spout Pumps, Spout, Hose, and Air Chamber Nuts.

1 and 1¼ in., . . . each, $0 35 | 1¼ in., . . . each, $0 45 | 2 in., . . . each, $0 60

DRIVE WELL POINTS.

Fig. 23.

Galvanized Iron Pipe, covered with Brass Gauze and perforated Brass, suitable for fine sand strata.

1¼ inch diameter, each, $5 50

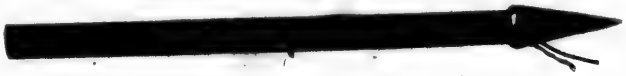


Fig. 24.

Galvanized Iron Pipe, covered with Brass Gauze, and Perforated Galvanized Iron Jacket, suitable for gravel or stony strata.

1¼ inch diameter, each, $4 50

SEWER TRAPS

Fig. 46.

Size, 16 x 16 inches, each, $2 50

CAST IRON SINKS.

With Round Corners, Plugs, and Strainers Underneath.

Fig. 45.

ALL 6 INCHES DEEP. PAINTED.

Sizes.	Each.
14 x 20 in.,	$2 20
15 x 27 in.,	2 90
16 x 24 in.,	2 70
16 x 30 in.,	3 50
18 x 24 in.,	2 80
18 x 30 in.,	3 75
18 x 36 in.,	4 75
18 x 42 in.,	6 25
20 x 36 in.,	5 25
20 x 40 in.,	6 00
24 x 38 in.,	6 50